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Ministry of Natural Resources
Hon. Vincent G. Kerrio
Minister
Mary Mogford
Deputy Minister

# Oil and Gas Exploration, Drilling and Production Summary, 1983

## Oil and Gas Paper 6

by R.A. Trevail, P.J. Pakvis, and D.K. Parker

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**Cover:** Pumpjack and production tanks of Consumers et al 33818 well, located in Lot 12, Concession I of Mersea Township, Essex County. Photo by Bob Sealey, Petroleum Resources Inspector, Chatham District.

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# Oil and Gas Exploration, Drilling and Production Summary, 1983

by R.A. Trevail, P.J. Pakvis, and D.K. Parker

Petroleum Resources Section, Ontario Ministry of Natural Resources, London.

# Introduction

Information contained within this report has been compiled from records submitted to the Petroleum Resources Section by licensed operators in compliance with the Petroleum Resources Act, R.S.O. 1980. Unless otherwise stated, all statistics and information reported are for the 1983 calendar year. Publication of annual reports are delayed one year due to the confidential status of exploratory well data incorporated within this report.


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# I. Section Organization

The Petroleum Resources Section of the Ministry of Natural Resources operates under the authority of the Petroleum Resources Act, R.S.O. 1980. The Section enforces the regulations made under the Act, namely Regulation 752 – Exploration, Drilling and Production. The Section also administers Regulation 633 – Exploratory Licences and Leases for Oil and Natural Gas North of the Fifty–First Parallel of Latitude and Regulation 634 – Exploratory Licences and Production Leases for Natural Gas in Lake Erie, both made under the Mining Act. The Section is responsible for all matters related to the disposition of Crown owned rights as well as the regulation of the exploration, development, and production phases of the petroleum industry. It provides operational, geological/engineering, inspection, core and drill cuttings samples storage and cataloguing services for the oil and gas industry together with laboratory, computer, and research facilities.

Administration and engineering offices were located at 1106 Dearness Drive, London in 1983. Key staff within the Petroleum Resources Section at that time are shown in Figure 1. Geological offices and sample repository facilities are located at 458 Central Avenue, London. Inspection staff operate from the various Regional and District offices throughout the Province as shown in Figure 2. The administration and engineering offices were moved in 1985 and are presently located at 650 Exeter Road in London.

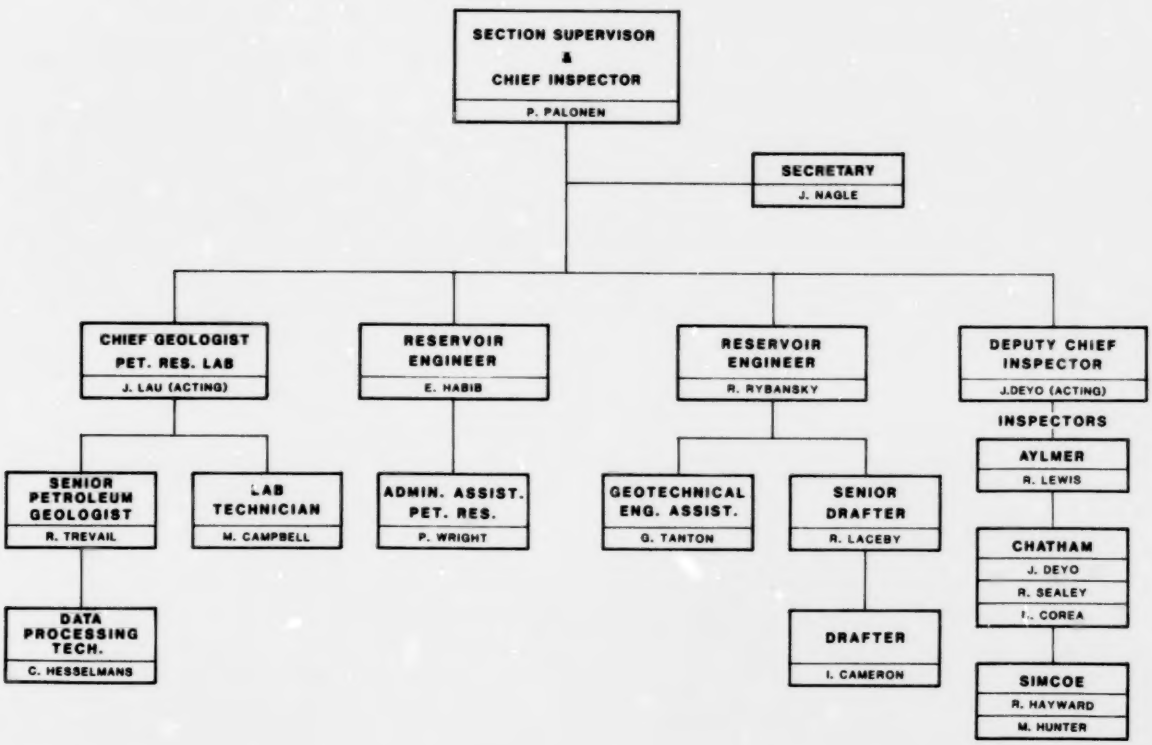



*Figure 1. Petroleum Resources Staff Organization, 1983.*

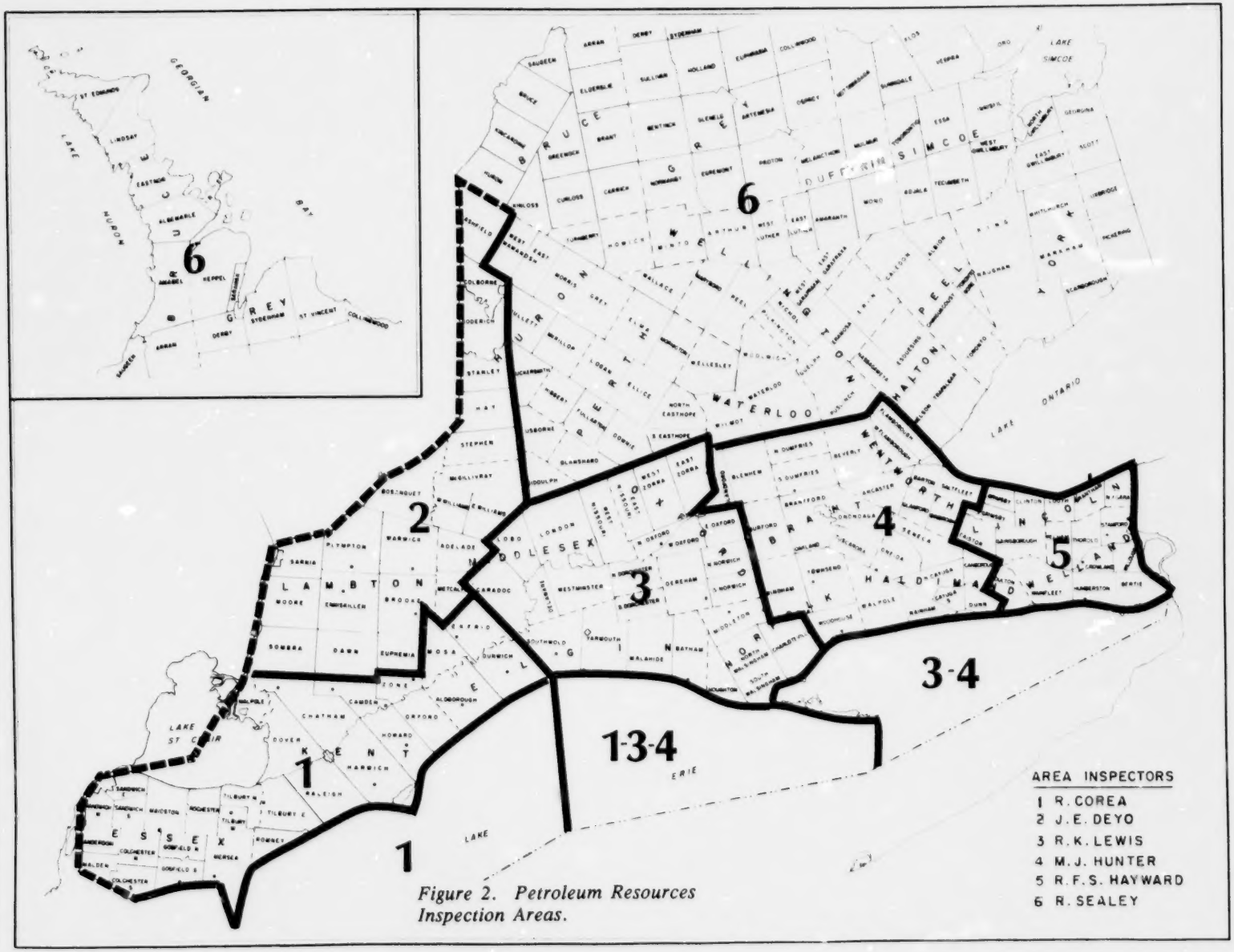



*Figure 2. Petroleum Resources Inspection Areas.*

# II. Computerization

The computerized Ontario Well Data System (OWDS) is being upgraded and expanded into an up–to–date Data Base Management System, in order to offer faster data retreival service to the petroleum industry. An advisability study prepared by Hutchinson Smiley Ltd. of Toronto recommended that a new system be developed utilizing an outside vendor who would provide system development, system operation, and on–going system maintenance. Greater versatility in data manipulation as well as machine access will be made available to users. The new petroleum data system will also offer greater computer mapping capability.

# III. 1983 Activity Highlights

The major highlights of 1983 included the discovery of two prolific Ordovician pools, Mersea 1–15–B (commonly known as the Hillman Pool) and Dover 7–5–V E Pool, and the commencement of Devran Petroleum Ltd.'s coring program in two abandoned Devonian pools in Lambton County. Drilling activity in Ontario increased moderately over the 1982 level. A total of 213 wells (165 exploratory and development, 47 service) were drilled with an overall success rate of 45% in combined exploratory and development drilling. Total metreage amounted to 96,788 m. Table 1 summarizes significant discoveries in Ontario during the year and Figure 2 shows their locations. Table 2 summarizes important dry tests drilled in 1983.

The Rowe/Ram #1 Dover 7–5–V E well (Table 1, No.3) was completed in February, 1983, as an Ordovician Black River oil producer with a reported flow of 49 $m^3$/day during a 48–hr test. The well began production at a rate of over 16 $m^3$ of oil/day. The well is located approximately 1.5 km north of the Dover oil and gas pool discovered in 1917. Pools of this type are characterized by the replacement of the original bioclastic limestone beds by discontinuous lenses of fine to medium–grained, light to medium–brown crystalline dolostone. Pools tend to be linear, following the trend of an associated fracture.

Two follow–up wells were drilled. Rowe/Ram #2 Dover 8–5–V E was completed as an observation well, and Rowe/Ram #3 Dover 5–4–V E was abandoned at 1,135.3 m in the Precambrian with no recorded hydrocarbon shows in the Trenton–Black River section.

In April,the Consumers' Gas Co. Ltd., with partners Pembina Resources Ltd. and Onexco Oil and Gas Ltd. (a subsidiary of the Ontario Energy Corp. – OEC), embarked on a 5–well exploration program in Mersea Township, Essex County, which resulted in 2 oil producers and 3 dry holes. Consumers et al 33683 Mersea 1–15–B (Table 1, No.2) was drilled to 1,056.2 m into the Precambrian and was completed as an Ordovician Trenton oil producer. The follow–up well, Consumers et al 33684 Mersea 8–14–A, reached total depth at 1,068 m in the Precambrian and was also completed as a Trenton oil producer.

In July 1983, Consumers' Gas and OEC signed a $4 million joint–venture agreement to explore for oil and gas in Ontario. The exploration program, involving extensive seismic surveys and up to 20 exploratory wells, will be conducted over the next 2 years. Consumers' Gas, as operator, will have a 2/3 interest, with the remaining 1/3 belonging to Onexco Oil and Gas Ltd. Exploration activities will be conducted on approximately 97,000 ha. in Lambton, Kent, Elgin, Essex, Middlesex, Brant, and Oxford Counties.

In December, Devran Petroleum Ltd. began an extensive coring program in the old Watford–Kerwood and abandoned Sarnia oil pools. The objective of the program was to evaluate the suitability of one of these pools as a candidate for mine–assisted gravity drainage of petroleum. Devran plans to sink an access shaft into the oil–bearing zone at 120 m and, from a work station excavated at the bottom of the shaft, drill horizontal holes into the pay zone. A radial pattern of 24 holes, 760 m in length, is expected to drain an area of approximately 161 ha. Devran anticipates initial production to be between 16 and 80 $m^3$ of oil/day.

TABLE 1: IMPORTANT DISCOVERIES IN SOUTHWESTERN ONTARIO IN 1983

| | Well Name | County | Township | Location | Completion Date | Total Depth (m) | Formation at T.D. | Producing Formation | Status | Class |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Consumers' OEC 33662 Yarmouth 1-9-I | Elgin | Yarmouth | 42 40' 19"N 81 09' 34"W | November 29 | 1,160.0 | Precambrian | Cambrian | Oil Producer | NPW |
| 2 | Consumers' et al 33683 Mersea 1-15-B | Essex | Mersea | 42 01' 02"N 82 32' 14"W | November 3 | 1,056.2 | Precambrian | Cobourg Sherman Falls | Oil Producer Gas Show | NPW |
| 3 | Rowe-Ram #1 Dover 7-5-V E | Kent | Dover East | 42 22' 33"N 82 21' 07"W | February 8 | 1,026.5 | Gull River | Coboconk | Oil Producer Gas Show | NPW |
| 4 | Bailey #2 Howard 4-2-5-I | Kent | Howard | 42 30' 27"N 82 01' 12"W | October 3 | 106.0 | Dundee | Dundee | Oil Producer | NPW |
| 5 | Ram #73 Brooke 5-14-XII | Lambton | Brooke | 42 53' 53"N 81 54' 14"W | September 29 | 630.3 | Goat Island | Dundee | Oil Producer Gas Show | NPW |
| 6 | General Drill Brooke 3-3-2-VIII | Lambton | Brooke | 42 50' 51"W 81 59' 50"W | November 23 | 137.0 | Dundee | Dundee | Oil Producer | NPW |
| 7 | Kingdon #3 Warwick 3-3-28-IV | Lambton | Warwick | 42 57' 48"N 81 48' 42"W | September 30 | 146.3 | Dundee | Dundee | Oil Producer Gas Show | NPW |
| 8 | Brett Cameron #1 Delaware 18-D-Gore | Middlesex | Delaware | 42 57' 06"N 81 21' 58"W | October 14 | 431.4 | A1 Carbonate | A1 Carbonate | Gas Producer | NPW |
| 9 | Houghton Exp. #1 2-10-ENR | Norfolk | Houghton | 42 40' 37"N 80 41' 30"W | November 10 | 423.9 | Queenston | Clinton-Cataract | Gas Prod[illegible]r Oil Show | NPW |
| 10 | Consumers' 13839 L.E. 150-F | Lake Erie | Lake Erie | 42 23' 30"N 80 19' 30"W | August 24 | 536.9 | Queenston | Grimsby | Gas Producer | NPW |
| 11 | F.M. #4 North Walsingham 2-17-VII | Norfolk | North Walsingham | 42 42' 28"N 80 30' 52"W | December 27 | 388.7 | Queenston | Clinton-Cataract | Gas Producer | NPW |

TABLE 2: IMPORTANT DRY TESTS IN SOUTHWESTERN ONTARIO IN 1983

| | Well Name | County | Township | Location | Completion Date | Total Depth (m) | Formation at T.D. | Producing Formation Showing Oil or Gas | Status | Class |
|---|---|---|---|---|---|---|---|---|---|---|
| 1. | Pembina #1 L.E. 376-L | Lake Erie | Lake Erie | 41 47' 35"N 82 31' 16"W | July 31 | 415.4 | Grimsby | A1 Carbonate Guelph | G.S.-Abd. | NPW |
| 2. | Consumers' 33631 Mersea 8-15-II | Essex | Mersea | 42 01' 57"N 82 32' 14"W | May 14 | 478.2 | Cabot Head | Guelph | G.S.-Abd. | NPW |
| 3. | Dow Howard 2-10-XI | Kent | Howard | 42 26' 30"N 81 52' 23"W | January 20 | 1,241.9 | Cambrian | Cambrian | O.S.-G.S.-Abd. | NPW |
| 4. | Pembina #1 L.E. 289-A | Lake Erie | Lake Erie | 42 04' 57"N 82 25' 01"W | August 6 | 478.4 | Grimsby | A1 Carbonate | O.S.-G.S.-Abd. | NPW |
| 5. | Consumers' 33556 Orford 8-4-SMR | Kent | Orford | 42 29' 47"N 81 43' 41"W | January 18 | 1,275.2 | Precambrian | Cambrian | O.S.-Abd. | NPW |
| 6. | Kingdon #2 Bosanquet 4-7-21-SBB | Lambton | Bosanquet | 43 05' 19"N 81 54' 49"W | March 29 | 170.4 | Lucus | Dundee | O.S.-G.S.-Abd. | NPW |
| 7. | Ram #74 Brooke 2-24-V | Lambton | Brooke | 42 52' 46"N 81 49' 56"W | September 20 | 142.9 | Lucas | Dundee-Lucas | O.S.-Susp. | NPW |
| 8. | Bedford-Postell Mosa 3-6-6-IV | Middlesex | Mosa | 42 44' 34"N 81 45' 58"W | January 19 | 132.5 | Lucas | Lucas | O.S.-Abd. | EXP |

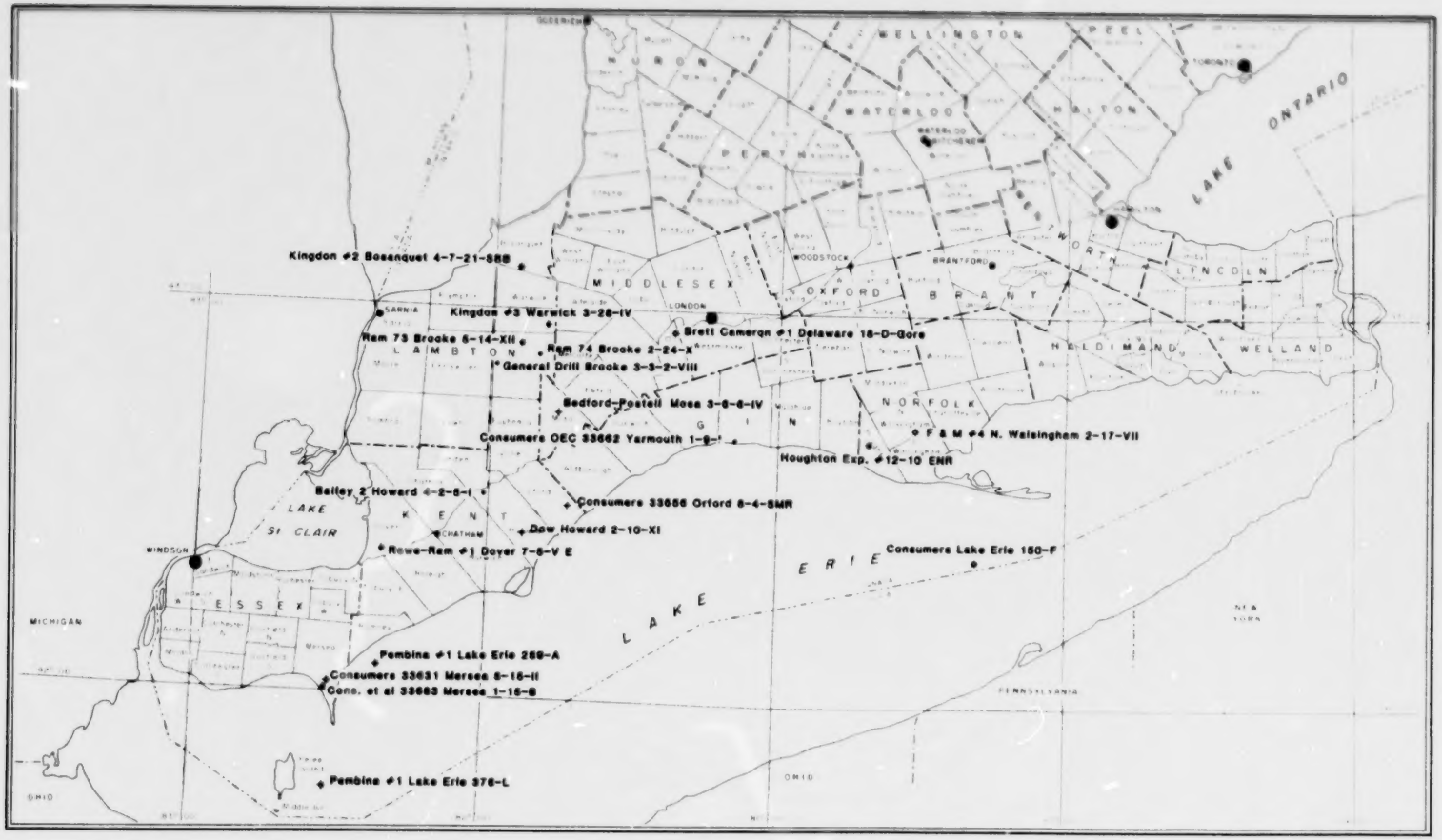



*Figure 3. Drilling activity in southwestern Ontario, 1983.*

A stratigraphic test well OGS–82–3 Yarmouth 3–9–I drilled as part of the Ontario Geological Survey Oil Shale Assessment Project near Port Stanley in Yarmouth Township (Figure 3) provided encouraging new information for oil exploration. The well encountered a good oil showing in the Cambrian section between 1125 and 1135 m. A total of 46 m (from depths of 1099.1 to 1145.1 m) of NW size core were submitted to Core Laboratories–Canada Ltd. for full diameter core analysis. The results of the core analysis were very encouraging. Utilizing the results of the core analysis, detailed visual inspection of slabbed core, and analysis of the available geophysical logs 3 distinct porosity–permeability zones were defined in the Cambrian section. The slabbed core samples, complete core analysis results, geophysical logs, and preliminary reports are available for inspection at the Petroleum Resources Laboratory.

The Port Stanley area, where faults are believed to be the main trapping mechanism, is relatively unexplored for Cambrian targets and therefore repesents an excellent opportunity to explore for new Cambrian pools. A recent exploration well Cons–OEC 33662, drilled in the Yarmouth area (Figure 3) by Consumers' Gas was completed as an oil producer, however, the results of tests have not yet been released to the public.

## CONVENTIONAL OIL AND GAS RESERVES

As part of the Hydrocarbon Energy Resources Program (HERP), funds from the Ontario Ministry of Treasury and Economics, under the Board of Industrial Leadership and Development (BILD) Program, were allocated to the Petroleum Resources Section to evaluate the proven and potential conventional reserves of oil and gas in Ontario. The project objective is to provide the petroleum industry and Ontario Ministry of Natural Resources with a revised current evaluation of the oil and gas reserves and potential of the Paleozoic rocks of Ontario. Areas underlain by Paleozoic rocks in southwestern Ontario and the St. Lawrence Lowlands will be re–evaluated in the study undertaken by local Ontario consultants, Bailey Geological Services Ltd. and R.O. Cochrane.

The study has been separated into 7 phases as follows:

Phase 1: Evaluation of the conventional hydrocarbon reserves and potential of the Ordovician rocks of Ontario

Phase 2: Evaluation of the conventional hydrocarbon reserves and potential of the Cambrian rocks of Ontario

Phase 3: Evaluation of the conventional hydrocarbon reserves and potential of the Devonian rocks of Ontario

Phase 4: Evaluation of the conventional hydrocarbon reserves and potential of the Silurian sandstones of Ontario

Phase 5: Evaluation of the conventional hydrocarbon reserves and potential of the Silurian Reef Complex of Ontario

Phase 6: Evaluation of the oil and gas potential of Paleozoic rocks in the James Bay and Hudson Bay Lowlands of Ontario

Phase 7: Summary and publication of the findings of Phases 1 to 6 of the Project.

Phases 1 and 2 of the project included 40 Preliminary Maps, covering the southern portion of the Province of Ontario at 1:250 000 scale,

and showing the regional structures and isopachs of the Trenton Group, Black River Group, Shadow Lake Formation, and top of the Precambrian Basement. Detailed oil and gas pool maps at 1:20 000 scale for 6 Cambrian pools and 10 Ordovician pools accompany the Open File Reports. Phases 3 and 4 of the study are in progress and reports are expected by the end of March, 1984. The regional maps completed for Phase 3 of the study, at a scale of 1:100 000, include the following:

1. Structure top of Devonian carbonate
2. Structure top sulphur water porosity
3. Isopach top Devonian carbonate to top sulphur water porosity
4. Structure Base Columbus sandstone
5. Isopach gross Columbus sandstone
6. Isopach gross Oriskany–Springvale sandstone
7. Isopach gross Sylvania sandstone

The completed study should provide incentive and justification for increased dollars spent on future petroleum exploration in the province.

# IV. Leasing

## 1. LICENCES

The number of licences to lease oil and gas rights in Ontario issued in 1983 decreased for the second year in a row. A total of 120 licences were issued as compared with 173 in 1982, and 199 in 1981 (Appendix I, Table I–1).

## 2. ACTIVITY

### A. Onshore – Southwestern Ontario

In 1983, 78,194.3 hectares were acquired on land, up 37.4% from the 56,911.6 hectares leased in 1982 (Table 3). The figures in Table 3 represent only new hectares leased on freehold lands, and therefore do not reflect the total number of hectares under lease and do not include assignments.

TABLE 3: HECTARES LEASED ONSHORE, 1980–1983

| County | 1980 | 1981 | 1982 | 1983 |
|---|---|---|---|---|
| Brant | 13,451.0 | 4,192.5 | 388.5 | |
| Bruce | 314.5 | 3,920.6 | 1,018.2 | |
| Durham | | | | 54.2 |
| Elgin | 35,915.9 | 6,280.3 | 3,258.3 | 19,273.9 |
| Essex | 12,950.4 | 1,714.7 | 4,139.7 | 5,310.8 |
| Grey | 1,017.0 | 1,288.1 | | 809.4 |
| Haldimand | 1,681.9 | 1,064.3 | | 235.5 |
| Huron | 2,296.7 | 3,352.8 | 5,739.5 | 12,101.7 |
| Kent | 10,169.2 | 10,191.2 | 13,6966.8 | 7,738.0 |
| Lambton | 64,609.7 | 16,412.1 | 22,249.7 | 28,001.7 |
| Lincoln | 7,765.7 | 615.5 | 4.0 | 40.5 |
| Manitoulin Island | 268.7 | | 60.7 | 288.5 |
| Middlesex | 11,4922.1 | 5,655.5 | 1,418.0 | 2,251.6 |
| Norfolk | 5,3011.5 | 10,892.1 | 3,976.8 | 1,660.8 |
| Oxford | 33,553.7 | 13,698.6 | 357.7 | 141.6 |
| Perth | 462.4 | 688.0 | | |
| Victoria | | 80.9 | | |
| Waterloo | | | | |
| Welland | 763.6 | 72.0 | 183.7 | |
| Wellington | | | | 517.6 |
| Wentworth | 288.5 | 314.4 | | |
| TOTAL | 202,402.5 | 80,433.6 | 56,911.6 | 78,194.3 |

The greatest increase in leasing activity occurred in Elgin County, where the total area leased was up nearly 500% over 1982. This increase can be attributed to an unexpected oil show encountered in Cambrian rocks during the drilling of a routine stratigraphic well by the Ontario Geological Survey.

Leasing activity also increased in Durham, Essex, Grey, Huron, Lambton, Lincoln, Manitoulin, Middlesex and Wellington Counties but decreased significantly in Kent, Norfolk and Oxford Counties (see Table 5).

A project approved within the framework of the Mining Sector Work Program (see Geo–Geo section), and submitted by Elexco Ltd. of London, Ontario, entailed the development of a computerized Land

Tenure System for onshore southern Ontario. The computer file is operational and contains information on 3 million ha. Information within the system is available to interested parties through Elexco Ltd. on a user pay basis.

### B. Offshore – Lake Erie

The Petroleum Resources Section, under Ontario Regulation 634 of the Mining Act, administers the disposition of Licences of Occupation and Production Leases in transactions involving Crown land in Lake Erie. Drilling is restricted to the portion of Lake Erie east of a line taken from Point Pelee, Ontario to Marble Head, Ohio. As well, production is limited to natural gas.

Table 4 show the number of hectares on Lake Erie under disposition during 1963–1983. In 1983 Pembina Exploration Co. held 55% of the total hectares under Lease or Licence of Occupation, Consumers' Gas another 36%, and Consolidated West Petroleum, Place Gas and Oil, Mitchell, and Union Gas, the remainder.

**TABLE 4: LAKE ERIE HECTARES UNDER DISPOSITION 1963-1983**

| Year | Licences of Occupation | Production Leases | Total Hectares |
|---|---|---|---|
| 1963 | n/a | n/a | 466,247.6 |
| 1964 | n/a | n/a | n/a |
| 1965 | n/a | n/a | n/a |
| 1966 | n/a | n/a | 259,493.1 |
| 1967 | n/a | n/a | 1,257,782.2 |
| 1968 | n/a | n/a | 1,257,631.3 |
| 1969 | n/a | n/a | 1,256,819.5 |
| 1970 | n/a | n/a | 828,671.8 |
| 1971 | n/a | n/a | 656,906.1 |
| 1972 | 594,437.6 | 62,236.3 | 656,673.9 |
| 1973 | 962,821.6 | 64,530.8 | 1,027,352.4 |
| 1974 | 1,011,015.2 | 71,206.1 | 1,082,221.3 |
| 1975 | 1,021,269.2 | 74,256.5 | 1,093,538.7 |
| 1976 | 1,019,282.2 | 74,256.5 | 1,093,538.7 |
| 1977 | 999,396.0 | 94,132.8 | 1,093,528.8 |
| 1978 | 961,746.0 | 157,274.3 | 1,119,020.3 |
| 1979 | 887,280.9 | 212,918.7 | 1,100,199.6 |
| 1980 | 889,578.0 | 215,002.0 | 1,104,580.0 |
| 1981 | 667,110.0 | 279,529.0 | 946,639.0 |
| 1982 | 843,068.0 | 301,109.0 | 1,144,177.0 |
| 1983 | 476,416.0 | 294,022.0 | 770,438.0 |

Rental payments to the Crown in 1983 were $206,751.01 for the Licences of Occupation and $551,759.16 for Leases. The total, $758,510.17, represented an increase of 14% from rent collected in 1982.

Royalty payments received by the Crown for the year amounted to $3,811,414.84 representing a 47% increase over the $2,578,923.79 collected in 1982.

Total revenue for all royalties and rent for the year was $4,569,925.00

### C. Hudson and James Bay Lowlands

Administration of licencing and leasing of oil and gas rights on Crown land in the Hudson and James Bay Lowlands is performed by the Petroleum Resources Section and personnel of Northern Region, Ministry of

Natural Resources under Regulation 603, R.S.O. 1970. This statute regulates Licences of Occupation on Crown lands north of the fifty–first parallel of latitude.

The Ontario Energy Corporation still held licences in the lowlands in 1983 for the purpose of exploring for lignite and bituminous shale. No new licences or leases were issued.

# V. Geophysical and Geochemical Activity

## 1. LICENCES

Twenty-nine licences to conduct geophysical or geochemical exploration for oil and natural gas in Ontario were issued in 1983 (Appendix I, Table I-2).

## 2. ACTIVITY

While overall geophysical and geochemical (hereafter referred to as geo-geo) exploration activity decreased by 64% to 642.4 km from 1,774.2 km acquired in 1982 (Table 5), both Lambton and Kent Counties experienced increases of 60% and 77% respectively. A job creation project submitted by Cangeo Ltd. of Oil Springs which received approval within the framework of a Joint Federal-Provincial Mining Sector Work Program, was responsible for the increases.

TABLE 5: GEOPHYSICAL AND GEOCHEMICAL EXPLORATION ACTIVITY, 1980-1983

| County | 1980 Kilometres | 1981 Kilometres | 1982 Kilometres | 1983 Kilometres |
|---|---|---|---|---|
| Brant | | | 29.80 | |
| Bruce | 76.80 | | | |
| Cochrane | | | | 30.20 |
| Elgin | 85.10 | 10.65 | | |
| Essex | 57.70 | 7.95 | 83.40 | |
| Haldimand | | | 247.00 | |
| Huron | 190.60 | 75.00 | 34.00 | |
| Kent | 15.70 | 12.00 | 54.90 | 186.48 |
| Lake Erie | 1,421.10 | | 1,013.40 | |
| Lambton | 804.00 | 462.55 | 274.68 | 412.36 |
| Manitoulin | | 10.00 | | |
| Middlesex | 52.60 | 21.00 | 29.00 | 2.90 |
| Norfolk | | | | .50 |
| Oxford | | 18.70 | 8.00 | 10.00 |
| TOTAL | 2,704.00 | 617.85 | 1,774.18 | 642.44 |

The project was jointly funded by the Canada Employment and Immigration Commission and the Ontario Board of Industrial Leadership and Development (BILD) through the Ontario Ministry of Natural Resources. The project entailed acquisition, processing, and interpretation of 346 km of seismic data. Reports are available from Cangeo Limited to all interested exporation companies on a cost-shared basis to cover the expenses of processing and interpretation of the data. The interpretation of the data revealed several Silurian reef structures and faults in the Ordovician Trenton and Black River Groups which may have potential for oil and gas accumulations.

Geo-geo activity increased in Elgin (100%), Oxford (56%), and Norfolk (100%) Counties. Middlesex County experienced a 91% decrease in activity from 1982. No geo-geo activity occured in Brant, Bruce, Essex, Haldimand, Huron, or Perth Counties, nor on Manitoulin Island or in Lake Erie.

As shown in Table 6, of the 642.4 km of geo–geo data acquired in 1983, seismic surveys conducted in Lambton, Kent, Elgin, and Norfolk Counties comprised 73% of the total (470.34 km). Geochemical surveys carried out in Lambton and Middlesex Counties contributed another 24% (153.5 km) with an electromagnetic survey in Oxford County adding 2% (10 km), and a micro–gravity survey in Lambton County the final 1% (8.6 km).

**TABLE 6: GEOPHYSICAL AND GEOCHEMICAL EXPLORATION METHODS, 1983**

| Method | County | 1983 Kilometres | Total | % of Total Kilometres |
|---|---|---|---|---|
| Electromagnetic | Oxford | 10.00 | 10.00 | 2% |
| Geochemical | Lambton | 150.60 | | |
| | Middlesex | 2.90 | 153.50 | 24% |
| Microgravity | Lambton | 8.60 | 8.60 | 1% |
| Seismic (dynamite) | Elgin | 30.20 | | |
| | Kent | 186.48 | | |
| | Lambton | 253.16 | | |
| | Norfolk | 0.50 | 470.34 | 73% |
| TOTAL | | | 642.44 | 100% |

# VI. Drilling

## 1. LICENCES

Licences were issued to 40 owners of machines for boring, drilling, or plugging wells in 1983 (Appendix I, Table I–3).

## 2. PERMITS

A total of 295 drilling permits were issued in 1983.

## 3. ACTIVITY

Drilling activity in Ontario, both onshore and in Lake Erie, remained stable during 1983 with 165 exploratory and development wells drilled compared with 166 in 1982. Table 7 provides a summary of drilling activity for the year by classification, county, and township.

Onshore exporatory drilling activity decreased 15% to 33 completions, compared with 39 in 1982, resulting in 7 oil producers, 5 gas producers, and 21 dry holes. Development drilling decreased 5% to 61 completions, compared with 64 in 1982, resulting in 21 oil producers, 25 gas producers, and 15 dry holes. In addition, 47 service wells were drilled consisting of 29 stratigraphic tests, 6 gas storage wells, 4 brine wells, 4 observation wells, 2 injection wells, and 2 disposal wells. One hole was classified as a 'lost hole'. Total metreage for all onshore wells in 1983 was 63,628 m.

Lake Erie drilling activity consisted of 16 exploratory wells, an increase of 167% over the 1982 figure of 6 exploratory wells, and 55 development wells, a decrease of 4% from 57 drilled in 1982. Exploratory drilling resulted in 2 gas wells and 14 dry holes for a drilling success rate of 13%. Development drilling was 56% successful with 31 wells completed as gas producers and 24 dry holes. Total metreage for all Lake Erie wells in 1983 was 33,160 m.

A total of 1,597 wells had been drilled in Lake Erie by the end of 1983. Table 8 and Figures 4, 5, 6, and 7 show Lake Erie drilling statistics from 1960 to 1983 inclusive.

Relatively accurate drilling statistics are available for the period 1955 to 1983 (Table 9, Figures 8, 9, 10, and 11). During that time 2,637 exploratory, 3,368 development, and 713 service wells were drilled for a total of 6,718 wells. Total metreage amounted to 3,233,695 m with an average depth of 481 m.

Table 10 presents a summary of 1983 drilling by geological age along with corresponding success rates for exploratory (24% overall) and development (66% overall) drilling.

TABLE 7: SUMMARY OF WELLS DRILLED IN 1983.

| County | Township | Exploratory Gas Oil Dry Susp | Total Wells | Total Metres | Development Gas Oil Dry Susp | Total Wells | Total Metres | Service Total Wells | Service Total Metres | Total Total Wells | Total Total Metres | County Total Wells | County Total Metres |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Algoma | Jocelyn | | | | | | | 1 | 349.0 | 1 | 349.0 | 1 | 349.0 |
| Cochrane | | | | | | | | 1 | 623.2 | 1 | 623.2 | 1 | 623.2 |
| Durham | Pickering | | | | | | | 1 | 249.9 | 1 | 249.9 | 1 | 249.9 |
| Elgin | S. Dorchester | 1 dry | 1 | 1066.0 | | | | | | 1 | 1066.0 | | |
| | Yarmouth | 1 oil | 1 | 1160.0 | | | | 1 | 1166.4 | 2 | 2326.4 | 3 | 3392.4 |
| Essex | Anderdon | | | | | | | 3 | 1108.1 | 3 | 1108.1 | | |
| | Colchester S. | | | | 1 oil | 1 | 749.9 | | | 1 | 749.9 | | |
| | Mersea | 1 oil 2 dry | 3 | 2612.2 | 1 oil | 1 | 1066.2 | | | 4 | 3678.4 | | |
| | Tilbury W. | | | | 1 oil | 1 | 357.6 | | | 1 | 357.6 | 9 | 5894.0 |
| Grey | Collingwood | | | | | | | 1 | 94.8 | 1 | 94.8 | 1 | 94.8 |
| Haldimand | S. Cayuga | | | | 1 oil | 1 | 250.3 | | | 1 | 250.3 | | |
| | Dunn | | | | 2 gas | 2 | 519.0 | | | 2 | 519.0 | | |
| | Moulton | | | | 1 gas | 1 | 208.1 | | | 1 | 208.1 | 4 | 977.4 |
| Halton | Nassagaweya | | | | | | | 1 | 635.3 | 1 | 635.3 | 1 | 635.3 |
| Huron | Goderich | 2 dry | 2 | 1253.6 | 1 gas 1 dry | 2 | 1779.7 | | | 4 | 3033.3 | | |
| | Stanley | 1 dry | 1 | 602.0 | 1 gas | 1 | 574.0 | | | 2 | 1176.0 | 6 | 4209.3 |
| Kent | Camden | | | | 1 oil | 1 | 103.8 | 5 | 764.9 | 6 | 868.7 | | |
| | Camden Gore | | | | | | | 2 | 353.0 | 2 | 353.0 | | |
| | Dover E. | 1 oil | 1 | 1026.5 | 1 oil 3 dry | 4 | 4502.4 | | | 5 | 5528.9 | | |
| | Howard | 1 oil 2 dry | 3 | 2619.2 | | | | | | 3 | 2619.2 | | |
| | Orford | 2 dry | 2 | 2506.0 | | | | | | 2 | 2506.0 | | |
| | Raleigh | 1 dry | 1 | 1158.2 | | | | | | 1 | 1158.2 | | |
| | Tilbury E. | | | | 8 oil | 8 | 3548.0 | 1 | 538.2 | 9 | 4086.2 | 28 | 17120.2 |
| Lambton | Bosanquet | 1 dry | 1 | 170.4 | 1 susp | 1 | 180.7 | | | 2 | 351.1 | | |
| | Brooke | 1 oil 1 dry 1 susp | 3 | 924.1 | | | | | | 3 | 924.1 | | |
| | Dawn | 1 dry | 1 | 648.8 | 3 oil 1 dry | 4 | 2385.7 | 2 | 1122.5 | 7 | 4157.0 | | |
| | Enniskillen | 3 dry | 3 | 2003.7 | 5 oil 2 dry | 7 | 1036.0 | 2 | 441.5 | 12 | 3481.2 | | |
| | Euphemia | | | | | | | 7 | 1027.6 | 7 | 1027.6 | | |
| | Moore | 2 dry | 2 | 1497.3 | | | | 3 | 2240.3 | 5 | 3737.6 | | |
| | Sarnia | 1 dry | 1 | 797.6 | 1 dry | 1 | 860.0 | | | 2 | 1657.6 | | |
| | Sombra | | | | | | | 3 | 1794.1 | 3 | 1794.1 | | |
| | Warwick | 1 oil 1 dry | 2 | 183.3 | | | | 3 | 426.0 | 5 | 609.3 | 46 | 17739.6 |
| Lincoln | Caistor | | | | 3 gas | 3 | 399.4 | | | 3 | 399.4 | 3 | 399.4 |
| Manitoulin | Howland | | | | | | | 1 | 220.6 | 1 | 220.6 | 1 | 220.6 |
| Middlesex | Delaware | 1 gas | 1 | 431.4 | | | | | | 1 | 431.4 | | |
| | Mosa | 1 dry | 1 | 132.5 | 7 oil 1 dry | 8 | 1018.3 | 8 | 1180.5 | 17 | 2331.3 | 18 | 2762.7 |
| Norfolk | Charlotteville | | | | 7 gas 1 dry | 8 | 3311.8 | | | 8 | 3311.8 | | |
| | Houghton | 1 gas | 1 | 423.9 | | | | | | 1 | 423.9 | | |
| | N. Walsingham | 1 gas | 1 | 388.7 | 2 gas 1 dry | 3 | 1231.5 | | | 4 | 1620.2 | | |
| | S. Walsingham | | | | 2 gas | 2 | 889.0 | | | 2 | 889.0 | 15 | 6244.9 |
| Oxford | Blandford | | | | 2 dry | 2 | 2084.0 | | | 2 | 2084.0 | 2 | 2084.0 |
| Peel | Toronto | | | | | | | 1 | 494.1 | 1 | 494.1 | 1 | 494.1 |
| Wentworth | Binbrook | 1 gas | 1 | 137.6 | | | | | | 1 | 137.6 | 1 | 137.6 |
| SUBTOTAL | | 4 gas 6 oil | | | 19 gas 28 oil | | | | | | | | |
| | | 22 dry 1 susp | 33 | 21743.0 | 14 dry 1 susp | 62 | 27055.4 | 47 | 14830.0 | 142 | 63628.4 | 142 | 63628.4 |
| L. Erie Total | | 2 gas 14 dry | 16 | 7622.9 | 31 gas 24 dry | 55 | 25536.9 | 71 | 33159.8 | 142 | 66319.6 | | |
| 1983 TOTAL | | 6 gas 6 oil | | | 50 gas 28 oil | | | | | | | | |
| | | 36 dry 1 susp | 49 | 29365.9 | 38 dry 1 susp | 117 | 52592.3 | 47 | 14830.0 | 213 | 96788.2 | 213 | 96788.2 |

TABLE 8: LAKE ERIE DRILLING STATISTICS 1960 TO 1983

| Year | Number of Explor. Wells | Explor. Metres | Cumul. Explor. Wells | Cumul. Explor. Metres | Number of Develop. Wells | Develop. Metres | Cumul. Develop. Metres | Cumul. Develop. Wells | Number of Service Wells | Service Metres | Total Wells | Cumul. Wells | Metres Drilled | Cumul. Total Metres |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1960 | 9 | 4231.5 | 9 | 4232 | 29 | 10462.0 | 29 | 10462 | | 0.0 | 38 | 259 | 14693.5 | 14694 |
| 1961 | 8 | 2625.9 | 17 | 6857 | 28 | 9141.3 | 57 | 19603 | | 0.0 | 36 | 295 | 11767.2 | 26461 |
| 1962 | 8 | 3096.8 | 25 | 9954 | 39 | 13291.7 | 96 | 32895 | | 0.0 | 47 | 342 | 16388.5 | 42849 |
| 1963 | 15 | 6285.9 | 40 | 16240 | 20 | 7116.5 | 116 | 40011 | | 0.0 | 35 | 377 | 13402.4 | 56252 |
| 1964 | 0 | 0.0 | 40 | 16240 | 20 | 6551.4 | 136 | 46563 | | 0.0 | 20 | 397 | 6551.4 | 62803 |
| 1965 | 5 | 1676.4 | 45 | 17916 | 31 | 10211.4 | 167 | 56774 | | 0.0 | 36 | 433 | 11887.8 | 74691 |
| 1966 | 0 | 0.0 | 45 | 17916 | 15 | 5551.9 | 182 | 62326 | 15 | 1211.0 | 30 | 463 | 6762.9 | 81454 |
| 1967 | 21 | 10021.2 | 66 | 27938 | 11 | 3954.2 | 193 | 66280 | | 0.0 | 32 | 495 | 13975.4 | 95429 |
| 1968 | 29 | 14477.4 | 95 | 42415 | 16 | 6708.6 | 209 | 72989 | | 0.0 | 45 | 540 | 21186.0 | 116615 |
| 1969 | 33 | 18369.7 | 128 | 60785 | 28 | 10388.8 | 237 | 83378 | 5 | 2150.7 | 66 | 606 | 30909.2 | 147524 |
| 1970 | 11 | 6771.1 | 139 | 67556 | 42 | 20218.6 | 279 | 103596 | | 0.0 | 53 | 659 | 26989.7 | 174514 |
| 1971 | 8 | 4191.6 | 147 | 71747 | 29 | 15745.4 | 308 | 119342 | | 0.0 | 37 | 696 | 19936.9 | 194451 |
| 1972 | 19 | 11841.5 | 166 | 83589 | 18 | 9464.3 | 326 | 128806 | | 0.0 | 37 | 733 | 21305.8 | 215757 |
| 1973 | 16 | 9781.3 | 182 | 93370 | 26 | 13286.2 | 352 | 142092 | | 0.0 | 42 | 775 | 23067.5 | 238824 |
| 1974 | 27 | 12103.0 | 209 | 105473 | 26 | 12947.6 | 378 | 155040 | | 0.0 | 53 | 828 | 25050.6 | 263875 |
| 1975 | 30 | 13683.7 | 239 | 119157 | 40 | 16648.8 | 418 | 171689 | | 0.0 | 70 | 898 | 30332.5 | 294207 |
| 1976 | 25 | 14140.9 | 264 | 133298 | 47 | 19068.3 | 465 | 190757 | | 0.0 | 72 | 970 | 33209.2 | 327417 |
| 1977 | 21 | 13766.6 | 285 | 147064 | 44 | 24792.1 | 509 | 215549 | | 0.0 | 65 | 1035 | 38558.7 | 365975 |
| 1978 | 23 | 15151.6 | 308 | 162216 | 62 | 31114.0 | 571 | 246663 | | 0.0 | 85 | 1120 | 46265.6 | 412241 |
| 1979 | 24 | 14360.3 | 332 | 176576 | 97 | 52017.5 | 668 | 298681 | | 0.0 | 121 | 1241 | 66377.8 | 478619 |
| 1980 | 50 | 29657.4 | 382 | 206234 | 76 | 45501.9 | 744 | 344182 | | 0.0 | 126 | 1367 | 75159.3 | 553778 |
| 1981 | 19 | 9349.4 | 401 | 215583 | 76 | 36267.5 | 820 | 380450 | | 0.0 | 95 | 1462 | 45616.9 | 599395 |
| 1982 | 10 | 4848.1 | 411 | 220431 | 54 | 24487.7 | 874 | 404938 | | 0.0 | 64 | 1526 | 29335.8 | 628731 |
| 1983 | 16 | 7531.9 | 427 | 227963 | 55 | 25101.1 | 929 | 430039 | | 0.0 | 71 | 1597 | 32633.0 | 661364 |

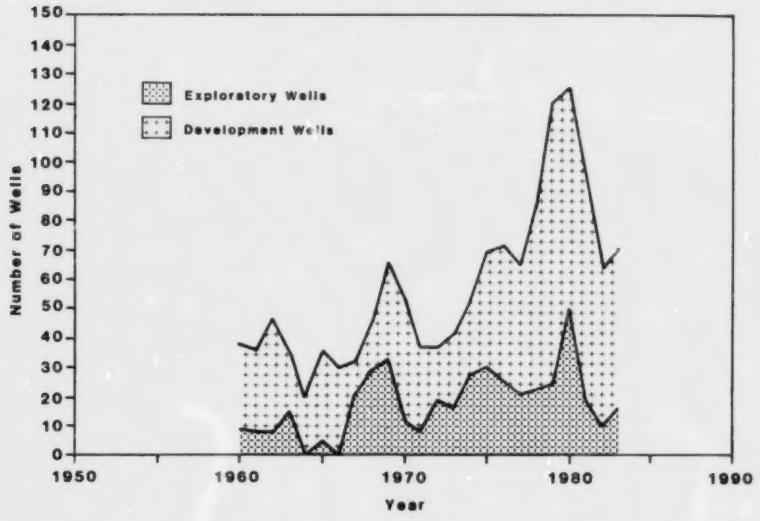



*Figure 4 — Exploratory and development wells drilled annually in Lake Erie, 1960–1983.*

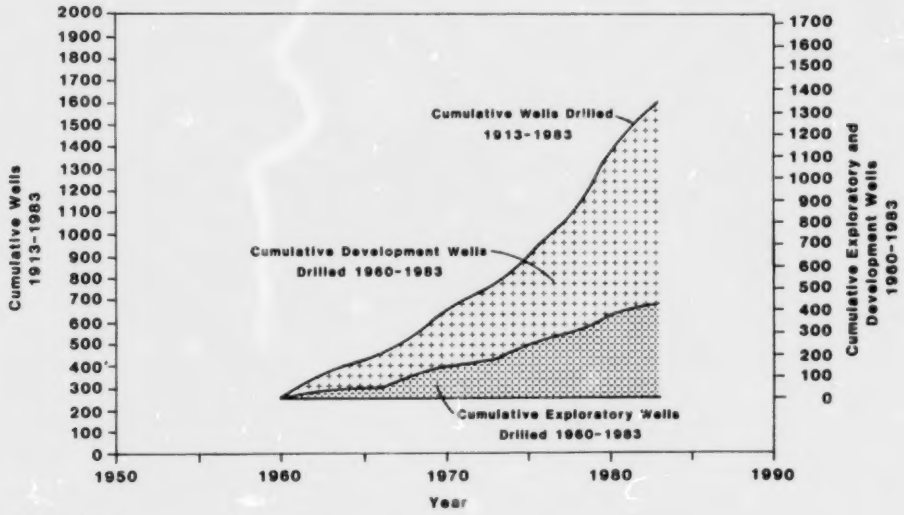



*Figure 5 — Cumulative exploratory and development wells drilled in Lake Erie, 1960–1983.*

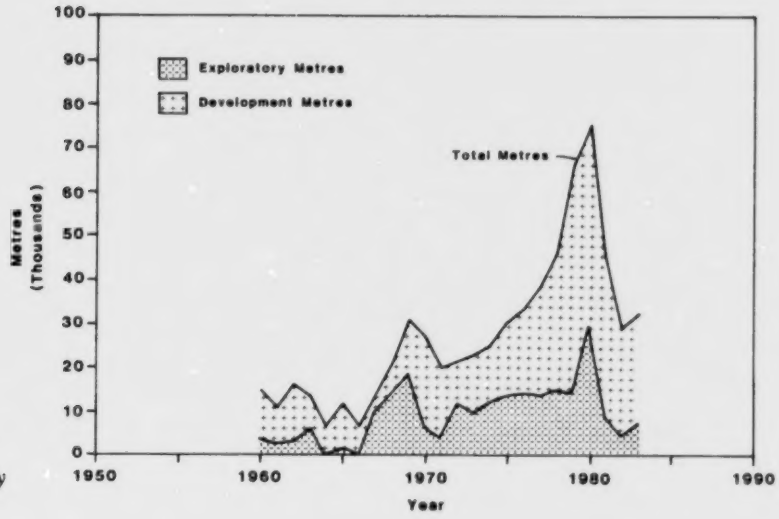



*Figure 6 — Exploratory and development metres drilled annually in Lake Erie, 1960–1983.*

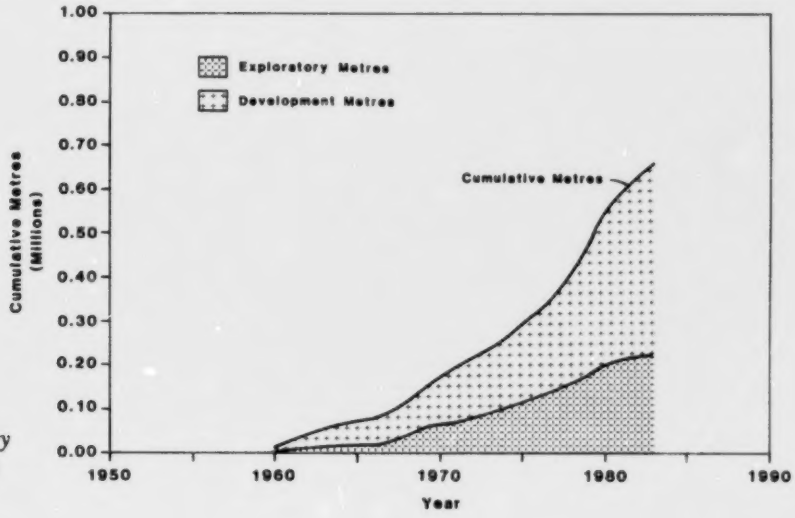



*Figure 7 — Cumulative exploratory and development metres drilled in Lake Erie, 1960–1983.*

TABLE 9: TOTAL DRILLING STATISTICS, 1955-1983.

| year | Exploratory | | | | | Development | | | | | Service | | | | | Total | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | wells | metres | ave depth | cumul wells | cumul metres | wells | metres | ave depth | cumul wells | cumul metres | wells | metres | ave depth | cum wells | cumul metres | wells | cum wells | metres | cumul metres |
| 1955 | 123 | 64414.6 | 523.7 | 123 | 64414.6 | 261 | 80662.0 | 309.0 | 261 | 80662 | 6 | | | 6 | 0.0 | 390 | 390 | 145076.6 | 145077 |
| 1956 | 134 | 67556.5 | 504.2 | 257 | 131971.1 | 290 | 89085.4 | 307.2 | 551 | 169747 | 7 | | | 13 | 0.0 | 431 | 821 | 156641.9 | 301718 |
| 1957 | 122 | 55660.4 | 456.2 | 379 | 187631.5 | 288 | 99079.5 | 344.0 | 839 | 268827 | 11 | | | 24 | 0.0 | 421 | 1242 | 154739.9 | 456458 |
| 1958 | 96 | 54504.3 | 567.8 | 475 | 242135.9 | 222 | 89702.0 | 404.1 | 1061 | 358529 | 35 | | | 59 | 0.0 | 353 | 1595 | 144206.4 | 600665 |
| 1959 | 116 | 59050.4 | 509.1 | 591 | 301186.3 | 165 | 63743.4 | 386.3 | 1226 | 422272 | 29 | | | 88 | 0.0 | 310 | 1905 | 122793.9 | 723459 |
| 1960 | 172 | 56107.6 | 326.2 | 763 | 357293.9 | 94 | 66373.5 | 706.1 | 1320 | 488646 | 40 | | | 128 | 0.0 | 306 | 2211 | 122481.1 | 845940 |
| 1961 | 165 | 49057.9 | 297.3 | 928 | 406351.8 | 85 | 56042.0 | 659.3 | 1405 | 544688 | 17 | 5473.0 | 321.9 | 145 | 5473.0 | 267 | 2478 | 110572.9 | 956513 |
| 1962 | 124 | 51013.5 | 411.4 | 1052 | 457365.3 | 81 | 58906.2 | 727.2 | 1486 | 603594 | 21 | 3062.0 | 145.8 | 166 | 8535.0 | 226 | 2704 | 112981.7 | 1069494 |
| 1963 | 93 | 66324.5 | 713.2 | 1145 | 523689.8 | 109 | 53386.6 | 489.8 | 1595 | 656981 | 14 | 3849.3 | 275.0 | 180 | 12384.3 | 216 | 2920 | 123560.4 | 1193055 |
| 1964 | 125 | 70824.5 | 566.6 | 1270 | 594514.3 | 91 | 60567.1 | 665.6 | 1686 | 717548 | 45 | 17738.8 | 394.2 | 225 | 30123.1 | 261 | 3181 | 149130.4 | 1342185 |
| 1965 | 108 | 54310.5 | 502.9 | 1378 | 648824.8 | 80 | 46476.5 | 581.0 | 1766 | 764024 | 16 | 6157.6 | 384.8 | 241 | 36280.6 | 204 | 3385 | 106944.6 | 1449130 |
| 1966 | 62 | 41181.8 | 664.2 | 1440 | 690006.6 | 56 | 27066.2 | 483.3 | 1822 | 791090 | 28 | 8074.5 | 288.4 | 269 | 44355.1 | 146 | 3531 | 76322.5 | 1525452 |
| 1967 | 68 | 38874.5 | 571.7 | 1508 | 728881.1 | 67 | 23815.8 | 355.5 | 1889 | 814906 | 21 | 9427.2 | 448.9 | 290 | 53782.3 | 156 | 3687 | 72117.5 | 1597570 |
| 1968 | 73 | 38823.3 | 531.8 | 1581 | 767704.4 | 79 | 39819.6 | 504.0 | 1968 | 854726 | 36 | 17955.5 | 498.8 | 326 | 71737.7 | 188 | 3875 | 96598.4 | 1694168 |
| 1969 | 144 | 91881.4 | 638.1 | 1725 | 859585.8 | 64 | 26345.9 | 411.7 | 2032 | 881072 | 29 | 16974.9 | 585.3 | 355 | 88712.6 | 237 | 4112 | 135202.2 | 1829370 |
| 1970 | 70 | 44411.2 | 634.4 | 1795 | 903997.0 | 98 | 49069.7 | 500.7 | 2130 | 930141 | 22 | 13434.7 | 610.7 | 377 | 102147.3 | 190 | 4302 | 106915.6 | 1936286 |
| 1971 | 64 | 39196.1 | 612.4 | 1859 | 943193.1 | 66 | 35323.5 | 535.2 | 2196 | 965465 | 30 | 13657.2 | 455.2 | 407 | 115804.5 | 160 | 4462 | 88176.8 | 2024463 |
| 1972 | 88 | 46991.9 | 534.0 | 1947 | 990185.0 | 47 | 23914.9 | [illegible].8 | 2243 | 989380 | 48 | 18445.9 | 384.3 | 455 | 134250.4 | 183 | 4645 | 89352.7 | 2113815 |
| 1973 | 52 | 31497.4 | 605.7 | 1999 | 1021682.4 | 56 | 27853.5 | 497.4 | 2299 | 1017233 | 18 | 7496.6 | 416.5 | 473 | 141746.9 | 126 | 4771 | 66847.5 | 2180663 |
| 1974 | 80 | 44415.2 | 555.2 | 2079 | 1066097.6 | 60 | 27143.9 | 452.4 | 2359 | 1044377 | 30 | 12602.6 | 420.1 | 503 | 154349.5 | 170 | 4941 | 84161.7 | 2264824 |
| 1975 | 66 | 37428.5 | 567.1 | 2145 | 1103526.1 | 71 | 26727.6 | 376.4 | 2430 | 1071105 | 25 | 15203.1 | 608.1 | 528 | 169552.6 | 162 | 5103 | 79359.2 | 2344184 |
| 1976 | 58 | 36088.3 | 622.2 | 2203 | 1139614.4 | 92 | 36600.9 | 397.8 | 2522 | 1107706 | 9 | 3804.5 | 422.7 | 537 | 173357.1 | 159 | 5262 | 76493.7 | 2420677 |
| 1977 | 57 | 33405.8 | 586.1 | 2260 | 1173020.2 | 113 | 55861.0 | 494.3 | 2635 | 1163567 | 19 | 8505.4 | 447.7 | 556 | 181862.6 | 189 | 5451 | 97772.2 | 2518450 |
| 1978 | 62 | 41724.1 | 673.0 | 2322 | 1214744.3 | 102 | 47902.9 | 469.6 | 2737 | 1211470 | 15 | 8448.8 | 563.3 | 571 | 190311.3 | 179 | 5630 | 98075.8 | 2616525 |
| 1979 | 67 | 45280.9 | 675.8 | 2389 | 1260025.2 | 142 | 69122.3 | 486.8 | 2879 | 1280592 | 13 | 7899.7 | 607.7 | 584 | 198211.0 | 222 | 5852 | 122302.9 | 2738828 |
| 1980 | 104 | 61244.1 | 588.9 | 2493 | 1321269.3 | 121 | 55954.2 | 462.4 | 3000 | 1336546 | 14 | 8383.5 | 598.8 | 598 | 206594.5 | 239 | 6091 | 125581.8 | 2864410 |
| 1981 | 50 | 29798.2 | 596.0 | 2543 | 1351067.5 | 131 | 56822.9 | 433.8 | 3131 | 1393369 | 50 | 9860.1 | 197.2 | 648 | 216454.6 | 231 | 6322 | 96481.2 | 2960891 |
| 1982 | 45 | 27813.2 | 618.1 | 2588 | 1378880.7 | 121 | 41890.9 | 346.2 | 3252 | 1435260 | 17 | 9772.0 | 574.8 | 665 | 226226.6 | 183 | 6505 | 79476.1 | 3040367 |
| 1983 | 49 | 29920.0 | 610.6 | 2637 | 1408800.7 | 116 | 51383.0 | 443.0 | 3368 | 1486643 | 48 | 14867.0 | 309.7 | 713 | 241093.6 | 213 | 6718 | 96170.0 | 3136537 |

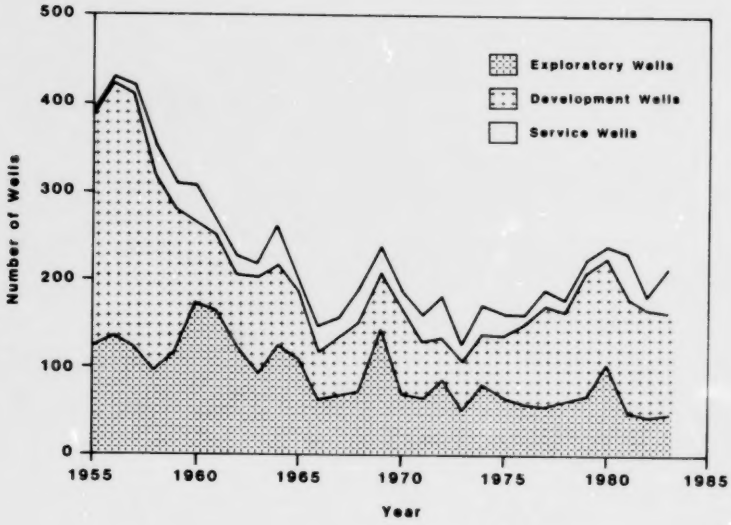



*Figure 8 — Exploratory, development, and service wells drilled annually in Ontario, 1955–1983.*

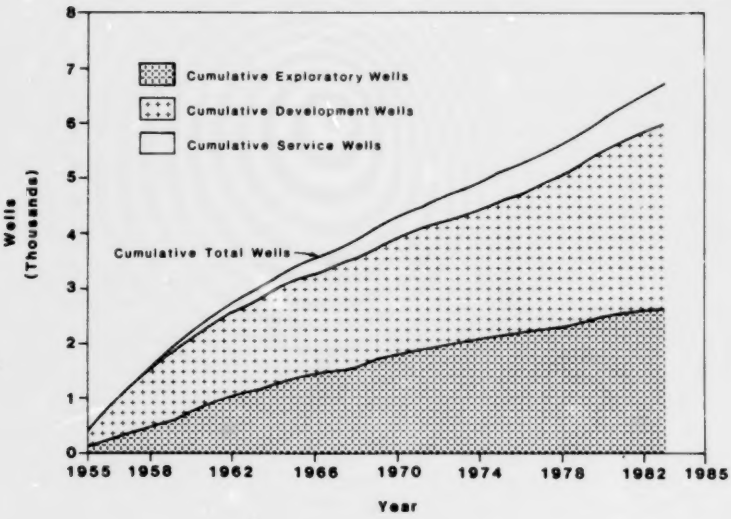



*Figure 9 — Cumulative exploratory, development and service wells drilled in Ontario, 1955–1983.*

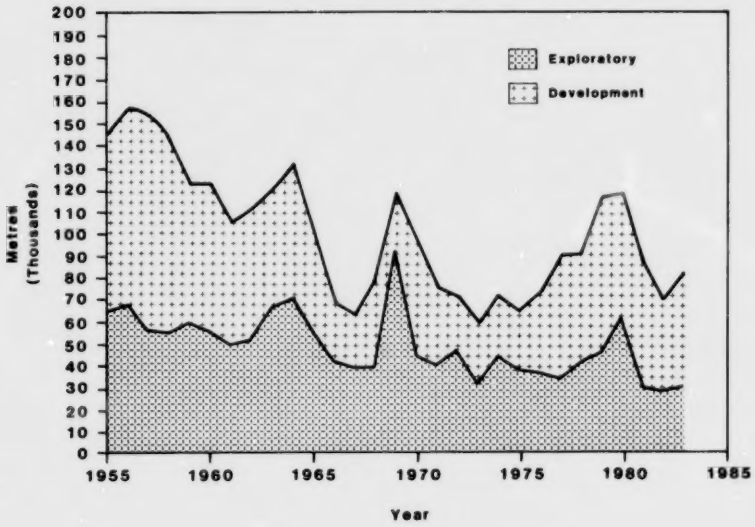



*Figure 10 — Exploratory and development metres drilled annually in Ontario, 1955–1983.*

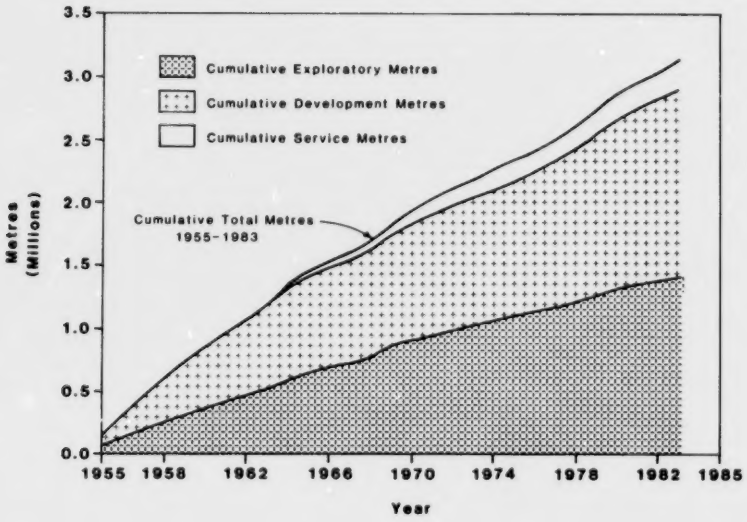



*Figure 11 — Cumulative exploratory, development and service wells drilled in Ontario, 1955–1983.*

TABLE 10: DRILLING SUMMARY BY GEOLOGICAL AGE 1983

| | EXPLORATORY WELLS | | | | DEVELOPMENT WELLS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oil | Gas | Dry | Suspended | Oil | Gas | Dry | Suspended | Service Wells | Total Wells | Exploratory Success Rate % | Development Success Rate % |
| Devonian | 3 | | 3 | 1 | 13 | | 3 | 1 | 27 | 51 | 43 | 76 |
| Silurian | | | | | | | | | | | | |
| Clinton-Cataract | | 5 | 18 | | | 49 | 27 | | | 99 | 22 | 64 |
| Salina-Guelph | | 1 | 8 | | 12 | 1 | 2 | | 12 | 36 | 11 | 86 |
| Ordovician | 1 | | | | 2 | | | 1 | 1 | 5 | 100 | 67 |
| Cambrian | 2 | | 7 | | 1 | | 5 | | | 15 | 22 | 16 |
| Precambrian | | | | | | | | | 7 | 7 | | |
| TOTAL | 6 | 6 | 36 | 1 | 28 | 50 | 37 | 2 | 47 | 213 | 24% | 66% |

# VII. Production

## 1. LICENCES

In 1983, 133 licences to produce oil and gas were isssued, compared to 124 in 1982. Appendix I, Table I–4 lists persons licenced to produce gas and oil in 1983.

## 2. CUMULATIVE PRODUCTION

In 1983, 941 active oil wells produced a total of 85,027 $m^3$ of crude oil, down 1.2% from 1982 production, for an average production rate of 90 $m^3$ per well (see Figure 12). Cumulative oil production from 1863 to year end in 1983 totalled 9,235,059 $m^3$ (Table 11 and Figure 13).

The average wellhead price for crude oil was \$201.55/$m^3$ in 1983, which generated a total revenue, including NORP and SOOP supplements, of \$17.1 million. Producers of NORP (New Oil Reference Price) oil, whose 17,323.1 $m^3$ of oil averaged \$249.94/$m^3$ at the wellhead, received a total of \$1.1 million in NORP supplements (Figure 14). SOOP (Special Old Oil Price, see Figure 15) oil producers realized a total subsidy of \$218,821.55, for 8,690.2 $m^3$ of oil, averaging \$211.03/$m^3$. As of July 1, 1983, oil in the SOOP category was valued at the NORP price, although the criteria defining SOOP remained in place. Under the NEP the federal government contributed \$1.3 million to the NORP and SOOP programs in Ontario. Table 12 shows the NORP and SOOP prices paid for D2, S2 oil. The 59,014 $m^3$ of COOP at an average wellhead price of \$185.85/$m^3$, earned a total of \$10.9 million in 1983.

Natural gas production for the year amounted to 522,837 $10^3m^3$, produced from 1142 active wells for a 2% increase over 1982 production, for an average production rate of 458 $10^3m^3$ per well (see Figure 16). Cumulative production from 1905 until 1983 amounts to 25,470,182 $10^3m^3$ (Table 13, Figure 17). Average price at the wellhead for the year was \$108.38/$10^3m^3$, generating a total revenue in 1983 of \$56.7 million.

Figure 18 and 19 compare the value of gas and oil production in 1971 dollars to the value in 1983 dollars.

Cumulative natural gas production from Lake Erie for the period 1960–1983 amounts to 4,966,852 $10^3m^3$ (Table 14, Figures 20 and 21).

## 3. OIL PRODUCTION

The most productive pool in 1983 was once again the Devonian Rodney Pool, followed by the Petrolia and Oil Springs Pools. Production figures on a pool basis for the 5 year period 1979–1983 are given in Table 15.

Silurian oil pools contributed 43% of the total oil produced in Ontario (Table 16) followed by Devonian pools with 41.0% and Cambrian and Ordovician, each with 8%.

Lambton County produced 52% of the total provincial oil and Elgin County 29% (Table 17, Figure 22).

Table 18 provides production statistics for each pool producing oil in 1983.

## 4. GAS PRODUCTION

The most productive gas pools in 1983 were the Maitland Pool (Lake Erie) with 22% of total production, and the Morpeth Pool (Lake Erie) with 20% followed by the Moore 3–21–XII Pool (Lambton County) with 12% and the Silver Creek and Clear Creek Pools (Lake Erie) with 10% each. Production figures on a pool basis for the 5 year period 1979–1983 are given in Table 19. In all, offshore gas production from the Lake Erie pools accounted for 73% (Figure 23) of Ontario production in 1983, a total of 379,013 $10^3m^3$, while onshore production amounted to 143,824 $10^3m^3$. Offshore gas production increased 9% over production in 1982, and onshore production decreased 12%.

The Clinton–Cataract gas pools produced 56% of the total natural gas, Salina–Guelph pools, 43%, Cambrian pools 1% and Ordovician pools the last .5% in Ontario in 1983 (Table 20).

Lambton County produced 60% of the natural gas on land (Table 21, Figure 24) however this represents only 17% of the total natural gas produced in the province. Figures 23 and 24 compare percentages of onshore gas production by county and percentages of total production which includes Lake Erie production.

Table 22 provides production statistics for each pool or production unit producing natural gas in 1983.

## 5. PROVEN RECOVERABLE RESERVES

As mentioned earlier, part of the Hydrocarbon Energy Resources Program was to estimate the proven recoverable reserves existing in Ontario's known oil and gas pools. Table 23 lists cumulative production thru 1983, proven recoverable reserves, and remaining recoverable reserves for all onshore oil and gas pools in Ontario. It was compiled from reports prepared by Bailey Geological Services Ltd. and R.O. Cochrane (1984a, b, 1985, 1986) and Bailey Geological Services Ltd. and Cairnlins Petroleum Services (in press). Proven recoverable reserve estimates are current as of December 31, 1981.

In a number of cases negative values occur in the remaining recoverable reserves columns. Reasons for this are:

1. No proven recoverable reserve figure was calculated due to lack of reliable production data or the pool was discovered after 1981 (Brooke 5–14–XII [oil], Dover 7–5–V E [oil], Innerkip East [oil], Manitoulin Island [oil], Morpeth [oil], Otter Creek East [oil], Sombra 4–9–XII [oil], Tipperary South [oil], Zone 6–5–IV [oil]).

2. Pool was abandoned and/or suspended prior to December 31, 1981 and subsequently reopened and put into production in 1982 and/or 1983. (Bayfield [gas], Fletcher [oil], Wallacetown [oil], Watford–Kerwood [oil], Wilsoncroft [oil]).

3. Pool was producing past the economic limit of production as calculated using the various parameters as listed in the reserve studies. (Beaver Meadow [oil], Becher West [gas], Brant [gas], Dunwich 18–I [oil], Enniskillen 2–30–IX [oil], Glencoe [oil], Haldimand [gas], Innerkip [oil], Lincoln [gas], Oil Springs [oil], Oil Springs East [oil], Osborne [oil], Shetland [oil], Welland [gas], Zone 5–III [oil]).

Details on the offshore pools will be included in Oil and Gas Paper 7.

TABLE 11: HISTORICAL PRODUCTION AND VALUE OF OIL 1863 - 1983

| Year | Number of Producing Oil Wells | Oil Production $m^3$ | Aver. Oil Production /Well/Year | Value of Production Oil 1971$ | Value of Oil Production 1983 $ | Cumulative Oil Production $m^3$ |
|---|---|---|---|---|---|---|
| 1863 | | 18124.5 | | | | 18124.5 |
| 1864 | | 23530.1 | | | | 41654.6 |
| 1865 | | 28935.6 | | | | 70590.2 |
| 1866 | | 34341.2 | | | | 104931.4 |
| 1867 | | 39746.8 | | | | 144678.2 |
| 1868 | | 45152.3 | | | | 189830.5 |
| 1869 | | 50557.9 | | | | 240388.4 |
| 1870 | | 56774.3 | | | | 297162.7 |
| 1871 | | 57910.5 | | | | 355073.2 |
| 1872 | | 59046.8 | | | | 414120.0 |
| 1873 | | 60183.1 | | | | 474303.1 |
| 1874 | | 61319.4 | | | | 535622.5 |
| 1875 | | 62455.7 | | | | 598078.2 |
| 1876 | | 63591.9 | | | | 661670.1 |
| 1877 | | 64728.2 | | | | 726398.3 |
| 1878 | | 65864.5 | | | | 792262.8 |
| 1879 | | 67000.8 | | | | 859263.6 |
| 1880 | | 68137.2 | | | | 927400.8 |
| 1881 | | 72673.0 | | | | 1000073.8 |
| 1882 | | 77221.6 | | | | 1077295.4 |
| 1883 | | 81764.8 | | | | 1159060.2 |
| 1884 | | 87215.7 | | | | 1246275.9 |
| 1885 | | 93120.3 | | | | 1339396.2 |
| 1886 | | 97662.5 | | | | 1437058.7 |
| 1887 | | 98571.9 | | | | 1535630.6 |
| 1888 | | 115265.6 | | | | 1650896.2 |
| 1889 | | 112880.8 | | | | 1763777.0 |
| 1890 | | 119240.3 | | | | 1883017.3 |
| 1891 | | 123214.9 | | | | 2006232.2 |
| 1892 | | 121625.1 | | | | 2127857.3 |
| 1893 | | 127189.6 | | | | 2255046.9 |
| 1894 | | 131164.3 | | | | 2386211.2 |
| 1895 | | 132754.1 | | | | 2518965.3 |
| 1896 | | 124009.9 | | | | 2642975.2 |
| 1897 | | 119240.3 | | | | 2762215.5 |
| 1898 | | 122420.0 | | | | 2884635.5 |
| 1899 | | 108906.1 | | | | 2993541.6 |
| 1900 | | 107316.2 | | 3197241 | 9335943.7 | 3100857.8 |
| 1901 | | 99366.9 | | 2800763 | 8178228.0 | 3200224.7 |
| 1902 | | 84263.1 | | 2642194 | 7715206.5 | 3284487.8 |
| 1903 | | 75518.8 | | 2913538 | 8507531.0 | 3360006.6 |
| 1904 | | 77108.7 | | 2512325 | 7335989.0 | 3437115.3 |
| 1905 | | 96187.1 | | 2495958 | 7288197.4 | 3533302.4 |
| 1906 | | 93637.0 | | 2115405 | 6176982.6 | 3626939.4 |
| 1907 | | 123990.1 | | 2915641 | 8513671.7 | 3750929.5 |
| 1908 | | 84097.3 | | 1954925 | 5708381.0 | 3835026.8 |
| 1909 | | 66879.6 | | 1554105 | 4537986.6 | 3901906.4 |
| 1910 | | 49986.9 | | 1022647 | 2986129.2 | 3951893.3 |
| 1911 | | 45888.8 | | 982147 | 2867869.2 | 3997782.1 |
| 1912 | | 38305.6 | | 957047 | 2794577.2 | 4036087.7 |
| 1913 | | 35957.5 | | 1105697 | 3228635.2 | 4072045.2 |
| 1914 | | 33784.2 | | 938519 | 2740475.5 | 4105829.4 |
| 1915 | | 34093.6 | | 833941 | 2435107.7 | 4139922.9 |
| 1916 | | 31300.8 | | 1077350 | 3145862.0 | 4171223.7 |
| 1917 | | 32272.8 | | 1319444 | 3852776.5 | 4203496.6 |
| 1918 | | 45909.2 | | 2169713 | 6335562.0 | 4249405.7 |
| 1919 | | 34993.1 | | 1757747 | 5132621.2 | 4284398.9 |
| 1920 | | 28895.9 | | 2011513 | 5873618.0 | 4313294.8 |

CONTINUED

Annual production figures for the period 1863-1885 are estimates only.

TABLE 11: CONTINUED

| Year | Number of Producing Oil Wells | Oil Production $m^3$ | Aver. Oil Production /Well/Year | Value of Production Oil 1971$ | Value of Oil Production 1983 $ | Cumulative Oil Production $m^3$ |
|---|---|---|---|---|---|---|
| 1921 | 3465 | 27482.4 | 7.9 | 1553327 | 4535714.8 | 4340777.2 |
| 1922 | 3506 | 26190.3 | 7.5 | 1296075 | 3784539.0 | 4366967.5 |
| 1923 | 3407 | 25342.4 | 7.4 | 1328191 | 3878317.7 | 4392309.9 |
| 1924 | 3379 | 24534.4 | 7.3 | 1084511 | 3166772.1 | 4416844.4 |
| 1925 | 2884 | 22933.8 | 8.0 | 1100427 | 3213246.8 | 4439778.1 |
| 1926 | 2752 | 21776.7 | 7.9 | 1032389 | 3014575.9 | 4461554.8 |
| 1927 | 2708 | 22195.4 | 8.2 | 801637 | 2340780.0 | 4483750.2 |
| 1928 | 2641 | 21330.2 | 8.1 | 696325 | 2033269.0 | 4505080.4 |
| 1929 | 2443 | 19257.3 | 7.9 | 696917 | 2034997.6 | 4524337.7 |
| 1930 | 2222 | 18649.5 | 8.4 | 665949 | 1944571.1 | 4542987.3 |
| 1931 | 2208 | 19454.3 | 8.8 | 660639 | 1929065.9 | 4562441.6 |
| 1932 | 2056 | 20722.9 | 10.1 | 822152 | 2400683.8 | 4583164.5 |
| 1933 | 2151 | 21631.5 | 10.1 | 856371 | 2500603.3 | 4604796.0 |
| 1934 | 2201 | 22478.3 | 10.2 | 999580 | 2918773.6 | 4627274.2 |
| 1935 | 2109 | 26239.3 | 12.4 | 1150019 | 3358055.5 | 4653513.5 |
| 1936 | 2079 | 26311.4 | 12.7 | 1121437 | 3274596.0 | 4679824.9 |
| 1937 | 2082 | 26265.5 | 12.6 | 1113618 | 3251764.6 | 4706090.4 |
| 1938 | 2110 | 27447.7 | 13.0 | 1126231 | 3288594.5 | 4733538.2 |
| 1939 | 2065 | 32811.6 | 15.9 | 1266337 | 3697704.0 | 4766349.8 |
| 1940 | 2028 | 29833.0 | 14.7 | 1199631 | 3502922.5 | 4796182.8 |
| 1941 | 1956 | 25348.5 | 13.0 | 946106 | 2762629.5 | 4821531.3 |
| 1942 | 1852 | 22869.5 | 12.3 | 821024 | 2397390.1 | 4844400.8 |
| 1943 | 1728 | 21064.4 | 12.2 | 806621 | 2355333.3 | 4865465.2 |
| 1944 | 1609 | 19884.1 | 12.4 | 742907 | 2169288.4 | 4885349.3 |
| 1945 | 1579 | 18017.2 | 11.4 | 658034 | 1921459.3 | 4903366.5 |
| 1946 | 1610 | 19568.5 | 12.2 | 694569 | 2028141.5 | 4922935.0 |
| 1947 | 1559 | 20874.2 | 13.4 | 765634 | 2235651.3 | 4943809.2 |
| 1948 | 1489 | 28139.0 | 18.9 | 1185397 | 3461359.2 | 4971948.2 |
| 1949 | 1518 | 41443.2 | 27.3 | 1681236 | 4909209.1 | 5013391.5 |
| 1950 | 1513 | 39851.1 | 26.3 | 1628348 | 4754776.2 | 5053242.6 |
| 1951 | 1471 | 31347.7 | 21.3 | 1109500 | 3239740.0 | 5084590.3 |
| 1952 | 1381 | 30496.0 | 22.1 | 1006907 | 2940168.4 | 5115086.3 |
| 1953 | 1423 | 47646.1 | 33.5 | 1581029 | 4616604.7 | 5162732.4 |
| 1954 | 1396 | 65578.1 | 47.0 | 2151702 | 6282969.8 | 5228310.5 |
| 1955 | 1433 | 83549.3 | 58.3 | 2639430 | 7707135.6 | 5311859.8 |
| 1956 | 1422 | 94338.3 | 66.3 | 2905224 | 8483254.1 | 5406198.1 |
| 1957 | 1428 | 99155.0 | 69.4 | 3139534 | 9167439.3 | 5505353.1 |
| 1958 | 1412 | 123746.3 | 87.6 | 3757879 | 10973006.7 | 5629099.4 |
| 1959 | 1384 | 159238.5 | 115.1 | 4485955 | 13098988.6 | 5788337.9 |
| 1960 | 1339 | 159787.0 | 119.3 | 4369022 | 12757544.2 | 5948124.9 |
| 1961 | 1312 | 182690.3 | 139.2 | 4892055 | 14284800.6 | 6130815.2 |
| 1962 | 1300 | 180376.5 | 138.8 | 4981189 | 14545071.9 | 6311191.7 |
| 1963 | 1311 | 191639.5 | 146.2 | 4624905 | 13504722.6 | 6502831.2 |
| 1964 | 1243 | 198206.6 | 159.5 | 5233788 | 15282661.0 | 6701037.8 |
| 1965 | 1234 | 203370.5 | 164.8 | 5174864 | 15110602.9 | 6904408.4 |
| 1966 | 1183 | 210464.4 | 177.9 | 5122247 | 14956961.2 | 7114872.7 |
| 1967 | 1068 | 197191.6 | 184.6 | 4102587 | 11979554.0 | 7312064.4 |
| 1968 | 1041 | 182959.3 | 175.8 | 3570266 | 10425176.7 | 7495023.7 |
| 1969 | 929 | 184725.6 | 198.8 | 3362493 | 9818479.6 | 7679749.3 |
| 1970 | 920 | 166692.8 | 181.2 | 2933785 | 8566652.2 | 7846442.1 |
| 1971 | 873 | 152326.4 | 174.5 | 2726771 | 7962171.3 | 7998768.4 |
| 1972 | 878 | 139608.0 | 159.0 | 2381971 | 6955355.3 | 8138376.5 |
| 1973 | 756 | 128564.9 | 170.1 | 2520539 | 7359973.9 | 8266941.4 |
| 1974 | 673 | 116707.5 | 173.4 | 3355486 | 9798019.1 | 8383648.9 |
| 1975 | 693 | 111978.4 | 161.6 | 3444368 | 10057554.6 | 8495627.3 |
| 1976 | 695 | 98811.9 | 142.2 | 3251870 | 9495460.4 | 8594439.2 |
| 1977 | 658 | 98372.1 | 149.5 | 3859638 | 11270143.0 | 8692811.4 |
| 1978 | 715 | 95144.2 | 133.1 | 4469449 | 13050791.1 | 8787955.6 |
| 1979 | 760 | 92912.8 | 122.3 | 4115097 | 12016083.2 | 8880868.4 |
| 1980 | 804 | 93386.5 | 116.2 | 4394782 | 12832763.4 | 8974254.9 |
| 1981 | 871 | 90043.6 | 103.4 | 4511563 | 13173764.0 | 9064298.5 |
| 1982 | 916 | 85733.3 | 93.6 | 5383380 | 15719469.6 | 9150031.8 |
| 1983 | 941 | 85027.3 | 90.4 | 5866910 | 17131377.5 | 9235059.1 |

Value of oil production in 1971 and 1983 dollars from Weatherson (1984).

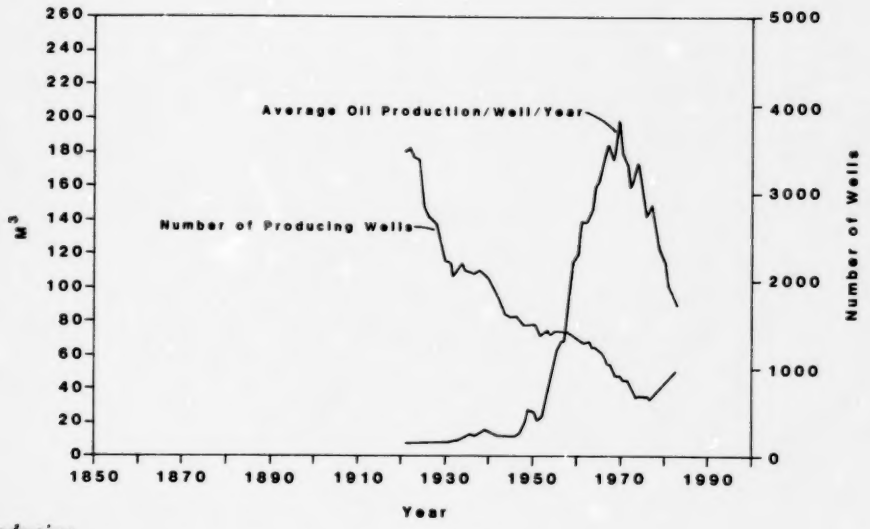



*Figure 12 — Number of producing oil wells and average oil production/well/year, 1921–1983.*

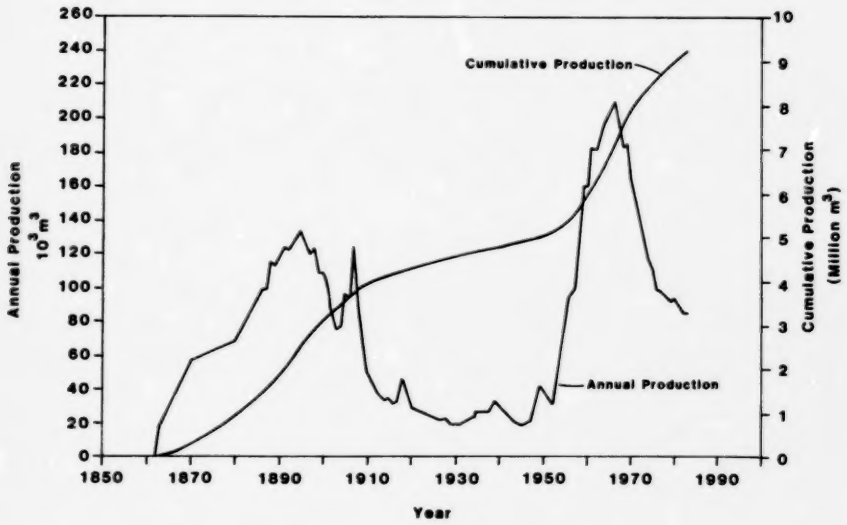



*Figure 13 — Annual and cummulative oil production, 1863–1983.*

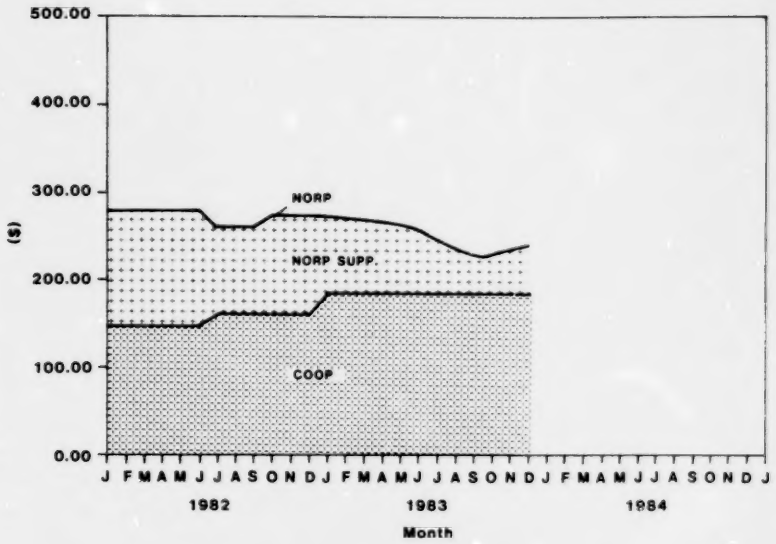



*Figure 14 — COOP and NORP values, 1982–1983.*

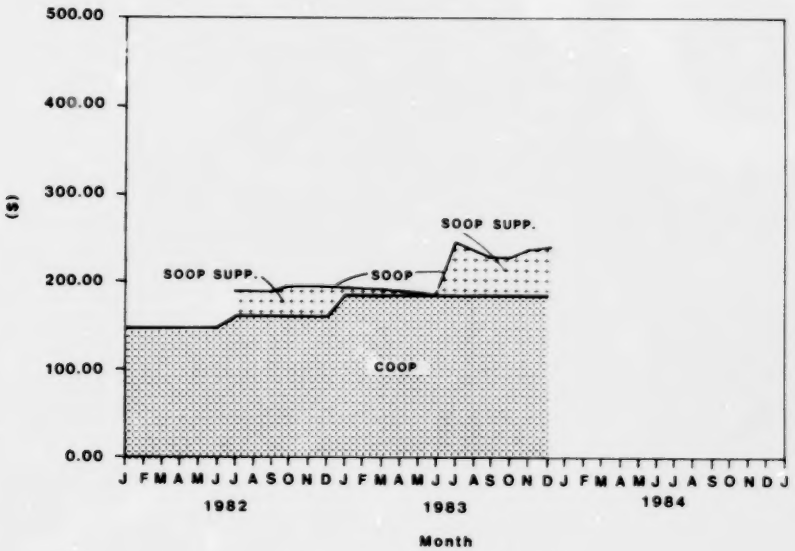



*Figure 15 — COOP and SOOP values, 1982–1983.*

TABLE 12: OIL PRICES D2-S3 QUALITY 1982 - 1983 ($/m³)

| Month | COOP | NORP | NORP SUPP | SOOP | SOOP SUPP |
|---|---|---|---|---|---|
| Jan 1/1982 | 147.25 | 278.00 | 130.75 | | |
| Feb 1/1982 | 147.25 | 278.00 | 130.75 | | |
| Mar 1/1982 | 147.25 | 278.00 | 130.75 | | |
| Apr 1/1982 | 147.25 | 278.00 | 130.75 | | |
| May 1/1982 | 147.25 | 278.00 | 130.75 | | |
| June 1/1982 | 147.25 | 278.00 | 130.75 | | |
| July 1/1982 | 161.10 | 260.95 | 99.85 | 189.00 | 27.90 |
| Aug 1/1982 | 161.10 | 260.95 | 99.85 | 189.00 | 27.90 |
| Sept 1/1982 | 161.10 | 260.95 | 99.85 | 189.00 | 27.90 |
| Oct 1/1982 | 161.10 | 272.90 | 111.80 | 195.80 | 34.70 |
| Nov 1/1982 | 161.10 | 272.90 | 111.80 | 195.80 | 34.70 |
| Dec 1/1982 | 161.10 | 272.90 | 111.80 | 195.80 | 34.70 |
| Jan 1983 | 185.85 | 271.20 | 85.35 | 193.45 | 7.60 |
| Feb 1983 | 185.85 | 268.40 | 82.55 | 191.30 | 5.45 |
| Mar 1983 | 185.85 | 268.40 | 82.55 | 191.30 | 5.45 |
| Apr 1983 | 185.85 | 264.95 | 79.10 | 189.55 | 3.70 |
| May 1983 | 185.85 | 261.40 | 75.55 | 186.80 | 0.95 |
| June 1/1983 | 185.85 | 257.40 | 71.55 | 185.85 | 0.00 |
| July 1/1983 | 185.85 | 246.10 | 60.25 | 246.10 | 60.25 |
| Aug 1/1983 | 185.85 | 235.80 | 49.95 | 235.80 | 49.95 |
| Sept 1/1983 | 185.85 | 227.70 | 41.85 | 227.70 | 41.85 |
| Oct 1/1983 | 185.85 | 227.70 | 41.85 | 227.70 | 41.85 |
| Nov 1/1983 | 185.85 | 235.45 | 49.60 | 235.45 | 49.60 |
| Dec 1/1983 | 185.85 | 238.50 | 52.65 | 238.50 | 52.65 |

COOP - Conventional Old Oil Price
NORP - New Oil Reference Price
SOOP - Special Old Oil Price

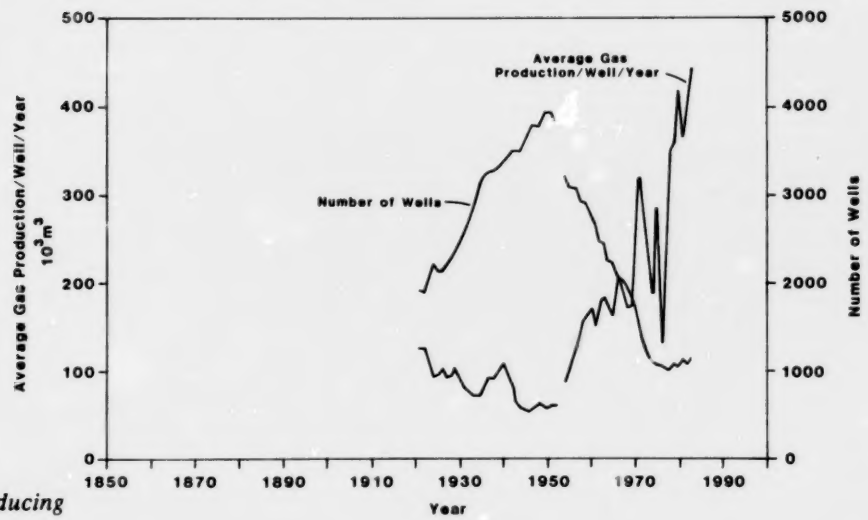



*Figure 16 — Number of producing gas wells and average gas production/well/year, 1921–1983.*

TABLE 13 — HISTORICAL PRODUCTION AND VALUE OF GAS, 1905 - 1983.

| Year | Number of Producing Gas Wells | Gas Production $10^3m^3$ | Aver. Gas Production /Well/Year $10^3m^3$ | Value of Production Gas 1971$ | Value of Gas Production 1983 $ | Cumul. Gas Production $10^3m^3$ |
|---|---|---|---|---|---|---|
| 1905 | | | | | | 1258145.0 |
| 1906 | | 71788.4 | | | | 1329933.4 |
| 1907 | | 117727.7 | | | | 1447661.1 |
| 1908 | | 126993.7 | | | | 1574654.8 |
| 1909 | | 152630.4 | | | | 1727285.2 |
| 1910 | | 205753.6 | | | | 1933038.8 |
| 1911 | | 348769.5 | | | | 2281808.3 |
| 1912 | | 352820.4 | | | | 2634628.7 |
| 1913 | | 355752.3 | | | | 2990381.1 |
| 1914 | | 398368.7 | | | | 3388749.8 |
| 1915 | | 430931.6 | | | | 3819681.4 |
| 1916 | | 507892.7 | | | | 4327574.1 |
| 1917 | | 567304.7 | | | | 4894878.8 |
| 1918 | | 370171.2 | | | | 5265050.0 |
| 1919 | | 327563.3 | | | | 5592613.3 |
| 1920 | | 303938.0 | | | | 5896551.3 |
| 1921 | 1915 | 241699.8 | 126.2 | | | 6138251.0 |
| 1922 | 1907 | 242721.5 | 127.3 | | | 6380972.5 |
| 1923 | 2004 | 230260.4 | 114.9 | | | 6611232.9 |
| 1924 | 2210 | 208802.1 | 94.5 | | | 6820034.9 |
| 1925 | 2125 | 205582.9 | 96.7 | | | 7025617.8 |
| 1926 | 2126 | 220291.3 | 103.6 | | | 7245909.2 |
| 1927 | 2217 | 207110.9 | 93.4 | | | 7453020.1 |
| 1928 | 2272 | 216219.0 | 95.2 | | | 7669239.1 |
| 1929 | 2349 | 243143.1 | 103.5 | | | 7912382.3 |
| 1930 | 2452 | 225019.8 | 91.8 | | | 8137402.1 |
| 1931 | 2606 | 210179.4 | 80.7 | | | 8347581.5 |
| 1932 | 2707 | 209233.8 | 77.3 | | | 8556815.2 |
| 1933 | 2821 | 203016.0 | 72.0 | | | 8759831.2 |
| 1934 | 2977 | 217638.6 | 73.1 | | | 8977469.8 |
| 1935 | 3127 | 231121.9 | 73.9 | | | 9208591.7 |
| 1936 | 3218 | 283469.4 | 88.1 | | | 9492061.1 |
| 1937 | 3252 | 304420.4 | 93.6 | | | 9796481.5 |
| 1938 | 3273 | 310269.3 | 94.8 | | | 10106750.9 |
| 1939 | 3322 | 338987.4 | 102.0 | | | 10445738.2 |
| 1940 | 3382 | 369774.7 | 109.3 | | | 10815513.0 |
| 1941 | 3429 | 335081.6 | 97.7 | | | 11150594.6 |
| 1942 | 3503 | 296784.3 | 84.7 | | | 11447378.8 |
| 1943 | 3511 | 224198.1 | 63.9 | | | 11671576.9 |
| 1944 | 3500 | 200632.2 | 57.3 | | | 11872209.1 |
| 1945 | 3612 | 203959.6 | 56.5 | | | 12076168.7 |
| 1946 | 3696 | 199748.4 | 54.0 | | | 12275917.0 |
| 1947 | 3793 | 220558.3 | 58.1 | | | 12496475.4 |
| 1948 | 3785 | 243348.3 | 64.3 | | | 12739823.7 |
| 1949 | 3812 | 227308.6 | 59.6 | | | 12967132.3 |
| 1950 | 3938 | 226891.5 | 57.6 | | | 13194023.8 |
| 1951 | 3951 | 239167.5 | 60.5 | | | 13433191.3 |
| 1952 | 3846 | 235183.1 | 61.2 | | | 13668374.4 |
| 1953 | NA | 278617.6 | NA | | | 13946992.0 |
| 1954 | 3211 | 283726.5 | 88.4 | | | 14230718.5 |
| 1955 | 3103 | 307438.0 | 99.1 | | | 14538156.5 |
| 1956 | 3083 | 362925.5 | 117.7 | | | 14901081.9 |
| 1957 | 3057 | 407946.8 | 133.4 | | | 15309028.7 |
| 1958 | 2931 | 457437.6 | 156.1 | | | 15766466.2 |
| 1959 | 2900 | 477019.2 | 164.5 | | | 16243485.4 |
| 1960 | 2792 | 481206.6 | 172.4 | 9117877 | 26624200.8 | 16724692.0 |
| 1961 | 2728 | 412004.8 | 151.0 | 7743514 | 22611060.9 | 17136696.8 |
| 1962 | 2472 | 443282.4 | 179.3 | 7894404 | 23051659.7 | 17579979.2 |
| 1963 | 2449 | 450980.8 | 184.1 | 8087728 | 23616165.8 | 18030959.9 |
| 1964 | 2262 | 391376.5 | 173.0 | 7509616 | 21928078.7 | 18422336.4 |
| 1965 | 2208 | 359748.9 | 162.9 | 6139222 | 17926528.2 | 18782085.4 |
| 1966 | 2098 | 440134.1 | 209.8 | 7182587 | 20973154.0 | 19222219.5 |
| 1967 | 2043 | 402769.2 | 197.1 | 6317811 | 18448008.1 | 19624988.7 |

TABLE 13 — CONTINUED.

| Year | Number of Producing Gas Wells | Gas Production $10^3m^3$ | Aver. Gas Production /Well/Year $10^3m^3$ | Value of Production Gas 1971$ | Value of Gas Production 1983 $ | Cumul. Gas Production $10^3m^3$ |
|---|---|---|---|---|---|---|
| 1968 | 1986 | 341798.9 | 172.1 | 5184810 | 15139645.2 | 19966787.5 |
| 1969 | 1834 | 318345.1 | 173.6 | 4611814 | 13466496.9 | 20285132.6 |
| 1970 | 1672 | 471643.2 | 282.1 | 6702326 | 19570791.9 | 20756775.8 |
| 1971 | 1439 | 457996.9 | 318.3 | 6333160 | 18492827.2 | 21214772.7 |
| 1972 | 1292 | 350560.7 | 271.3 | 4544880 | 13271049.6 | 21565333.4 |
| 1973 | 1187 | 269910.5 | 227.4 | 3234693 | 9445303.6 | 21835244.0 |
| 1974 | 1130 | 213505.6 | 188.9 | 2510046 | 7329334.3 | 22048749.6 |
| 1975 | 1083 | 309778.3 | 286.0 | 4442320 | 12971574.4 | 22358527.8 |
| 1976 | 1070 | 140438.6 | 131.3 | 3029925 | 8847381.0 | 22498966.4 |
| 1977 | 1034 | 241522.2 | 233.6 | 5979615 | 17460475.8 | 22740488.6 |
| 1978 | 1017 | 352996.5 | 347.1 | 11700527 | 34165538.8 | 23093485.1 |
| 1979 | 1078 | 378141.1 | 350.8 | 10672645 | 31164123.4 | 23471626.2 |
| 1980 | 1066 | 446962.8 | 419.3 | 15034317 | 43900205.6 | 23918589.0 |
| 1981 | 1141 | 515800.2 | 452.1 | 14030180 | 40968125.6 | 24434389.2 |
| 1982 | 1086 | 512955.3 | 472.3 | 15084050 | 44045426.0 | 24947344.5 |
| 1983 | 1142 | 522837.4 | 457.8 | 19405862 | 56665117.4 | 25470181.9 |

Value of gas production in 1971 and 1983 dollars from Weatherson (1984).
Cumulative gas production figure for 1905 is the estimated production for the period 1890–1905.

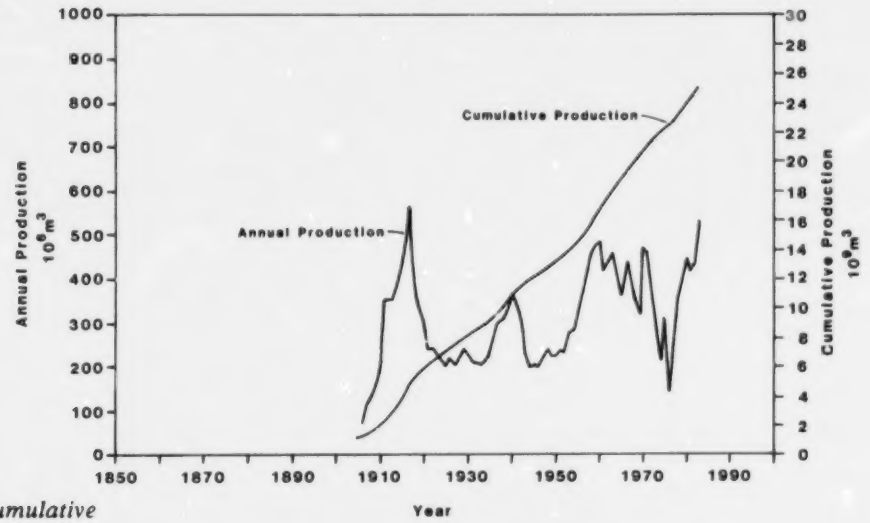



*Figure 17 — Annual and cumulative gas production, 1906–1983.*

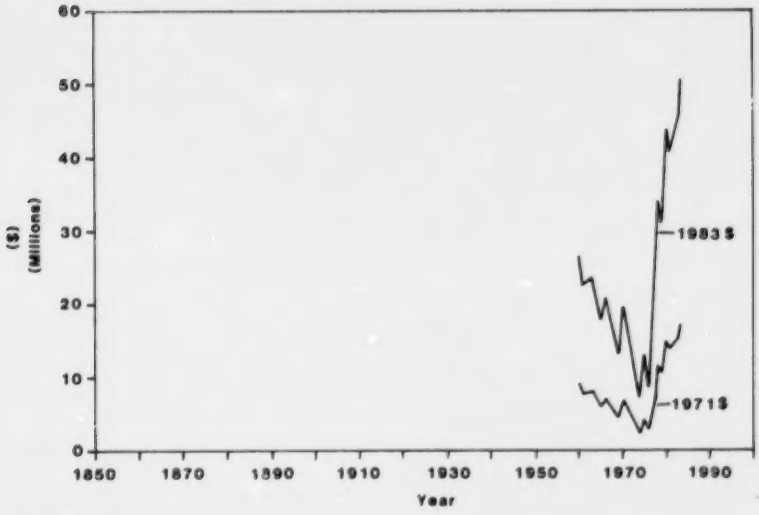



*Figure 18 — Value of gas production 1971$ and 1983$, 1960–1983.*

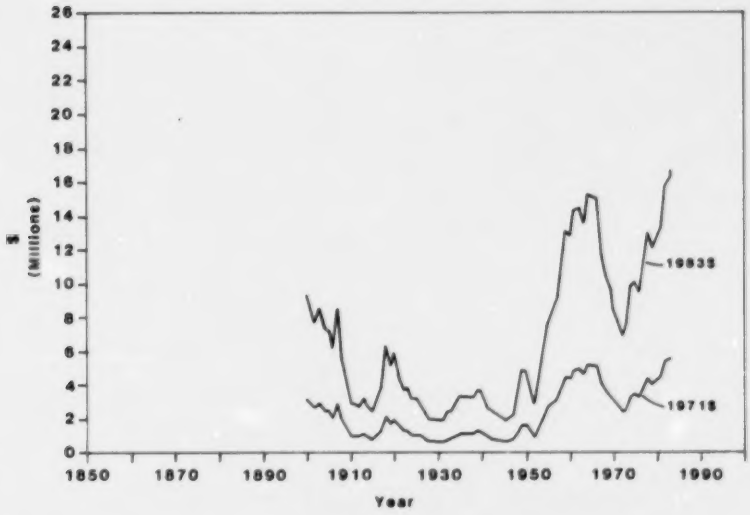



*Figure 19 — Value of oil production 1971$ and 1983$, 1900–1983.*

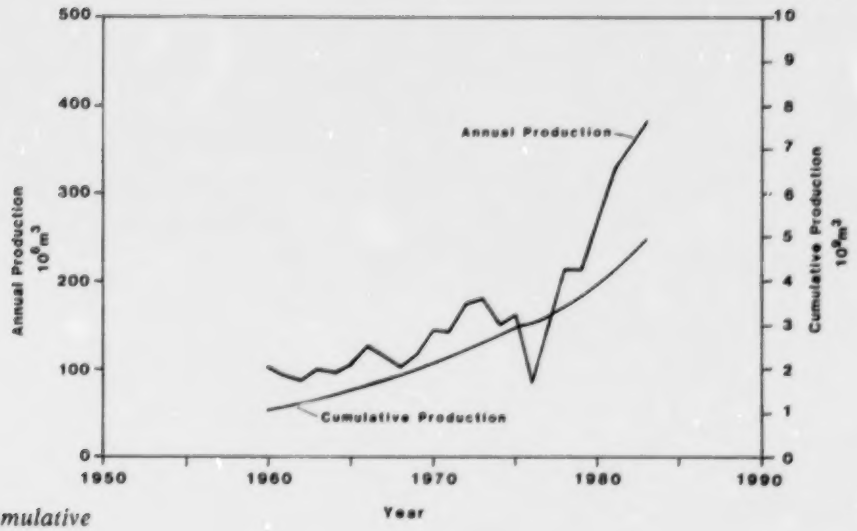



*Figure 20 — Annual and cumulative gas production from Lake Erie, 1960–1983.*

**TABLE 14: LAKE ERIE GAS PRODUCTION, 1960 - 1983**

| Year | Number of Active Wells | Number of Suspended Wells | Production $10^3 m^3$ | Average Production/ Well ($10^3 m^3$) | Cumulative Production $10^3 m^3$ |
|---|---|---|---|---|---|
| 1960 | 127 | 17 | 102021.4 | 803.3 | 1083614.1 |
| 1961 | 145 | 41 | 92750.8 | 639.7 | 1176364.8 |
| 1962 | 172 | 49 | 87687.6 | 509.8 | 1264052.5 |
| 1963 | 168 | 74 | 100090.7 | 595.8 | 1364143.1 |
| 1964 | 196 | 63 | 97954.7 | 499.8 | 1462097.8 |
| 1965 | 225 | 57 | 105758.6 | 470.0 | 1567856.4 |
| 1966 | 228 | 60 | 125980.1 | 552.5 | 1693836.5 |
| 1967 | 200 | 86 | 117186.6 | 585.9 | 1811023.1 |
| 1968 | 222 | 81 | 103471.6 | 466.1 | 1914494.7 |
| 1969 | 223 | 107 | 117103.9 | 525.1 | 2031598.7 |
| 1970 | 250 | 90 | 144800.2 | 579.2 | 2176398.8 |
| 1971 | 268 | 47 | 143558.8 | 535.7 | 2319957.6 |
| 1972 | 272 | 59 | 175858.4 | 646.5 | 2495816.0 |
| 1973 | 285 | 49 | 181161.6 | 635.7 | 2676977.6 |
| 1974 | 291 | 73 | 151038.1 | 519.0 | 2828015.7 |
| 1975 | 272 | 107 | 160309.0 | 589.4 | 2988324.7 |
| 1976 | 279 | 114 | 80587.0 | 288.8 | 3068911.7 |
| 1977 | 320 | 141 | 157891.5 | 493.4 | 3226803.2 |
| 1978 | 328 | 100 | 212634.5 | 648.3 | 3439437.7 |
| 1979 | 344 | 119 | 213870.3 | 621.7 | 3653308.0 |
| 1980 | 376 | 144 | 272426.3 | 724.5 | 3925734.3 |
| 1981 | 474 | 154 | 324283.3 | 684.1 | 4250017.6 |
| 1982 | 444 | 156 | 353013.6 | 795.1 | 4603031.2 |
| 1983 | 527 | 161 | 383651.0 | 728.0 | 4986682.2 |

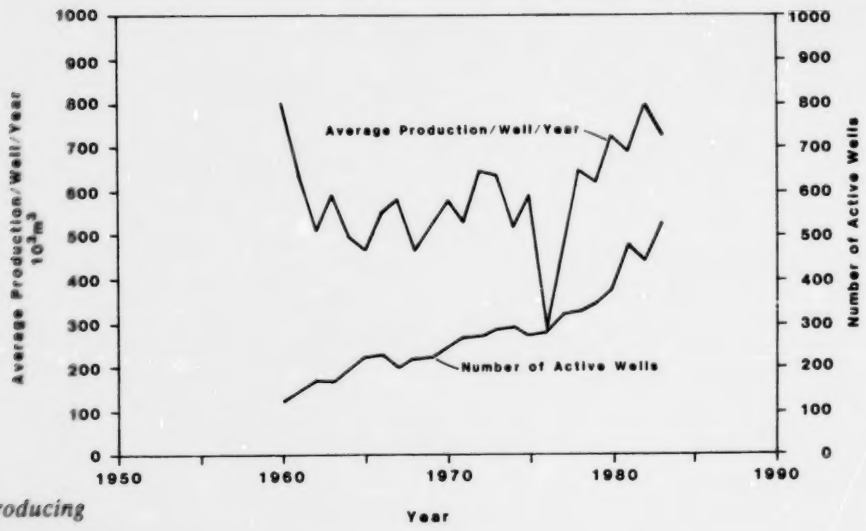



*Figure 21 — Number of producing gas wells and average gas production/well/year in Lake Erie, 1960–1983.*

TABLE 15: ONTARIO OIL PRODUCTION, 1979–1983.

| COUNTY | POOL NAME | 1979 $m^3$ | 1980 $m^3$ | 1981 $m^3$ | 1982 $m^3$ | 1983 $m^3$ |
|---|---|---|---|---|---|---|
| ELGIN | | | | | | |
| | Aldborough 4-A-VIII | 0.0 | 361.6 | 346.7 | 188.0 | 119.1 |
| | Dunwich 16-I | N/A | N/A | 249.6 | 458.3 | 329.8 |
| | Dunwich 18-I | 64.1 | 79.1 | 33.4 | 62.1 | 32.9 |
| | Rodney | 24158.8 | 23430.9 | 21720.6 | 20788.8 | 20288.4 |
| | Wallacetown | 118.0 | 151.9 | 151.9 | 36.4 | 63.0 |
| | Willey | 6778.0 | 7108.2 | 5382.0 | 4706.7 | 3843.0 |
| ESSEX | | | | | | |
| | Colchester | 1043.0 | 696.4 | 553.2 | 864.4 | 953.4 |
| | Gosfield South | 4590.0 | 3646.7 | 1951.0 | 1444.3 | 1223.5 |
| | Malden | 283.0 | 418.4 | 346.2 | 339.4 | 348.9 |
| | Malden 3-41-IV | 72.0 | 262.4 | 270.6 | 165.6 | 149.7 |
| | Ruscom River | 17.0 | 57.0 | 29.0 | 0.0 | 0.0 |
| HURON | | | | | | |
| | Grand Bend | 4460.9 | 4269.6 | 3294.5 | 2956.8 | 2784.6 |
| | Tipperary | 0.0 | 148.8 | 250.2 | 133.8 | 128.3 |
| | Tipperary South | 0.0 | 0.0 | 0.0 | 159.1 | 9.0 |
| KENT | | | | | | |
| | Bothwell-Thamesville | 1423.5 | 1518.1 | 1403.9 | 1413.7 | 1477.8 |
| | Chatham | 311.0 | 162.0 | 319.4 | 177.8 | 331.0 |
| | Clearville | 3324.0 | 3471.4 | 3102.8 | 2890.6 | 2208.5 |
| | Dover | 65.0 | 75.7 | 55.8 | 54.7 | 851.2 |
| | Dover 7-5-V | 0.0 | 0.0 | 0.0 | 0.0 | 2953.3 |
| | Dresden | 182.2 | 181.7 | 166.7 | 139.3 | 145.1 |
| | Fletcher | 0.0 | 0.0 | 0.0 | 10.5 | 135.1 |
| | Morpeth | 0.0 | 0.0 | 0.0 | 0.0 | 25.0 |
| | Zone 5-III | 92.0 | 54.5 | 42.0 | 31.0 | 18.7 |
| | Zone 6-5-IV | 0.0 | 0.0 | 0.0 | 118.3 | 43.9 |

TABLE 15: CONTINUED.

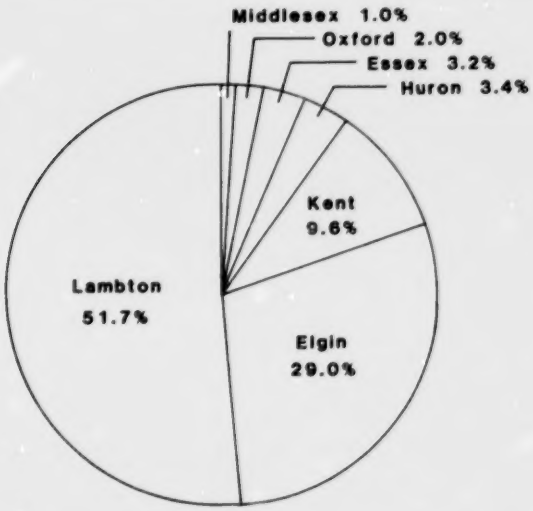
| COUNTY POOL NAME | 1979 $m^3$ | 1980 $m^3$ | 1981 $m^3$ | 1982 $m^3$ | 1983 $m^3$ |
|---|---|---|---|---|---|
| LAMBTON | | | | | |
| Beaver Meadow | 43.1 | 94.9 | 35.3 | 36.6 | 14.2 |
| Becher West | 6172.4 | 6636.9 | 6419.0 | 5722.7 | 5340.6 |
| Brigden | 291.6 | 300.2 | 256.9 | 224.2 | 245.0 |
| Brooke | 3029.4 | 2783.7 | 2451.9 | 1667.5 | 1593.9 |
| Brooke 1-9-X | 1393.4 | 784.7 | 535.0 | 351.9 | 296.9 |
| Brooke 5-14-XII | 0.0 | 0.0 | 0.0 | 0.0 | 12.1 |
| Corey East | 753.9 | 158.9 | 1577.3 | 3961.7 | 3358.2 |
| Corunna | 3017.6 | 2403.7 | 3524.1 | 2601.7 | 2050.8 |
| Cromar | 562.2 | 659.7 | 697.9 | 522.8 | 600.4 |
| Dawn 156 | 510.5 | 276.5 | 278.5 | 275.1 | 224.4 |
| Dawn 28-II | 129.0 | 135.0 | 164.0 | 280.9 | 1554.9 |
| Dawn 4-28-III | 0.0 | 0.0 | 0.0 | 86.7 | 272.8 |
| Dawn 5-29-IX | 0.0 | 0.0 | 121.0 | 354.1 | 127.8 |
| Dawn Miscellaneous | 1315.9 | 1515.2 | 1192.5 | 1632.9 | 1789.9 |
| Edys Mills | 698.2 | 1833.5 | 1906.7 | 1594.5 | 1406.0 |
| Enniskillen 2-30-IX | 318.7 | 266.6 | 86.3 | 26.4 | 58.3 |
| Ladysmith | 2985.1 | 2900.9 | 2351.7 | 2110.9 | 2123.1 |
| Moore 7-6-III | 0.0 | 0.0 | 568.4 | 699.8 | 562.5 |
| Oil Springs | 4123.0 | 4850.5 | 5396.0 | 5660.3 | 6069.7 |
| Oil Springs East | 63.0 | 363.0 | 68.0 | 47.0 | 22.9 |
| Osborne | 105.0 | 28.6 | 149.9 | 94.1 | 76.5 |
| Otter Creek East | 0.0 | 0.0 | 0.0 | 0.0 | 12.2 |
| Petrolia | 3395.1 | 4917.2 | 4766.7 | 5445.4 | 6711.7 |
| Petrolia East | 3085.8 | 2835.4 | 2716.7 | 2279.1 | 1832.9 |
| Plympton 5-19-VI | 2911.8 | 3178.8 | 5507.0 | 4329.4 | 3345.3 |
| Seckerton-Seckerton North | 3432.0 | 3492.5 | 3940.4 | 3853.7 | 2382.5 |
| Shetland | 0.0 | 0.0 | 12.3 | 11.1 | 5.3 |
| Sombra 18-VII | 62.1 | 164.9 | 191.3 | 105.3 | 108.8 |
| Sombra 4-9-XII | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 |
| Sombra 6-28-IX | 30.2 | 19.0 | 55.1 | 99.0 | 110.6 |
| Sutorville | 87.3 | 104.6 | 105.7 | 96.0 | 98.9 |
| Wanstead | 973.0 | 703.0 | 495.5 | 691.2 | 705.8 |
| Warwick | 1103.0 | 922.8 | 860.6 | 767.8 | 688.4 |
| Warwick 6-17-IV SER | 223.8 | 457.6 | 433.5 | 311.9 | 50.8 |
| Watford-Kerwood | 0.0 | 0.0 | 0.0 | 0.0 | 52.9 |
| Wilsoncroft | 0.0 | 0.0 | 24.5 | 8.8 | 31.8 |
| MANITOULIN | | | | | |
| Manitoulin | 0.0 | 0.0 | 0.0 | 0.0 | 17.7 |
| MIDDLESEX | | | | | |
| Ekfrid 10-V S | 64.3 | 176.3 | 53.6 | 91.6 | 138.2 |
| Ekfrid 8-V S | 121.2 | 130.7 | 60.3 | 0.0 | 92.1 |
| Glencoe | 0.0 | 0.0 | 249.0 | 293.5 | 352.1 |
| Mosa | 154.4 | 175.0 | 144.0 | 130.0 | 129.6 |
| Willey North | 989.9 | 573.7 | 472.9 | 387.1 | 166.0 |
| OXFORD | | | | | |
| Gobles | 3657.0 | 3364.4 | 2425.1 | 1562.9 | 1438.1 |
| Innerkip | 127.4 | 83.7 | 79.5 | 171.1 | 277.7 |
| Innerkip East | 0.0 | 0.0 | 0.0 | 7.0 | 9.5 |
| TOTAL PRODUCTION | 92912.8 | 93386.5 | 90043.6 | 85733.3 | 85027.3 |

TABLE 16: OIL PRODUCTION BY GEOLOGICAL AGE, 1979-1983.

| | 1979 | 1980 | 1981 | 1982 | 1983 |
|---|---|---|---|---|---|
| | % | % | % | % | % |
| Devonian | 36.1 | 37.3 | 37.3 | 39.4 | 41.1 |
| Silurian | 40.4 | 40.3 | 45.3 | 44.9 | 42.6 |
| Ordovician | 6.6 | 5.9 | 4.2 | 3.6 | 7.9 |
| Cambrian | 17.0 | 16.6 | 13.2 | 12.1 | 8.4 |
| TOTAL | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 17: OIL PRODUCTION BY COUNTY, 1983.

| County | Production $m^3$ | % of Ontario Total |
|---|---|---|
| Elgin | 24,676.2 | 29.02 |
| Essex | 2,675.5 | 3.15 |
| Huron | 2,912.9 | 3.43 |
| Kent | 8,189.6 | 9.63 |
| Lambton | 43,952.1 | 51.69 |
| Manitoulin | 17.7 | 0.02 |
| Middlesex | 878.0 | 1.03 |
| Oxford | 1,725.3 | 2.03 |
| TOTAL | 85,027.3 | 100.00 |




TOTAL PRODUCTION 85,027.3 $m^3$

*Figure 22 — Percentage oil production by county, 1983.*

TABLE 18: OIL PRODUCTION BY POOL OR FIELD, 1983.

| County/Pool Name | Active Wells | Production 1983 $m^3$ | Operator 1983 |
|---|---|---|---|
| **ELGIN** | | | |
| Aldborough 4-A-VIII | 1 | 119.1 | Rayrock |
| Dunwich 16-I | 1 | 329.8 | Den-Mar |
| Dunwich 18-I | 1 | 32.9 | Den-Mar |
| Rodney | 125 | 20288.4 | C.C.S.,Rayrock |
| Wallacetown | 16 | 63.0 | Dutton |
| Willey | 9 | 3843.0 | Sasko |
| **ESSEX** | | | |
| Colchester | 6 | 953.4 | Galswinkler, Putman |
| Gosfield South | 7 | 1223.5 | Galswinkler |
| Malden | 4 | 348.9 | Galswinkler |
| Malden 3-41-IV | 1 | 149.7 | Galswinkler |
| **HURON** | | | |
| Grand Bend | 5 | 2784.6 | Sunburst |
| Tipperary | 1 | 128.3 | Tipperary |
| Tipperary South | 1 | 9.0 | Tipperary |
| **KENT** | | | |
| Bothwell-Thamesville | 34 | 1477.8 | Koyden, Pope, Sitler, Stevenson |
| Chatham | 1 | 331.0 | Riddell |
| Clearville | 9 | 2208.5 | Murphy |
| Dover | 2 | 851.2 | Comfort, Francisco |
| Dover 7-5-V E | 1 | 2953.3 | E.P. Rowe |
| Dresden | 1 | 145.1 | Brett |
| Fletcher | 7 | 135.1 | Consumers' |
| Morpeth | N/A | 25.0 | Consumers' |
| Zone 5-III | 1 | 18.7 | Thames |
| Zone 6-5-IV | 1 | 43.9 | Thames |
| **LAMBTON** | | | |
| Beaver Meadow | N/A | 14.2 | Stevenson |
| Becher West | 17 | 5340.6 | Murphy |
| Brigden | 1 | 245.0 | Consumers' |
| Brooke | 5 | 1593.9 | Crich |
| Brooke 1-9-X | 1 | 296.9 | Bluewater |
| Brooke 5-14-XII | 1 | 12.1 | Ram |
| Corey East | 1 | 3358.2 | Ram |
| Corunna | 10 | 2050.8 | Esso |
| Cromar | 2 | 600.4 | Corden, Ram |
| Dawn 156 | 1 | 224.4 | Esso |
| Dawn 28-II | 3 | 1554.9 | Brookwood, Forbes |
| Dawn 4-28-III | 1 | 272.8 | Brookwood |
| Dawn 5-29-IX | 1 | 127.8 | Forbes |
| Dawn Miscellaneous | 13 | 1789.9 | Colonial, Dawn, Forbes, LMG, Union |
| Edys Mills | 1 | 1406.0 | Ram |
| Enniskillen 2-30-IX | 1 | 58.3 | Bluewater |
| Ladysmith | 3 | 2123.1 | Michigan |
| Moore 7-6-III | 1 | 562.5 | Crawford |
| Oil Springs | 391 | 6069.7 | Ayrheart, Baldwin, Barnes, Byers, Fairbank, Matheson, Mitchell, Morningstar, Mothersbough, Patterson, Woods |

CONTINUED.

TABLE 18: CONTINUED.

| County/Pool Name | Active Wells | Production 1983 $m^3$ | Operator 1983 |
|---|---|---|---|
| **LAMBTON** (CONTINUED) | | | |
| Oil Springs East | 1 | 22.9 | Talcorp |
| Osborne | 1 | 76.5 | Michigan |
| Otter Creek East | 1 | 12.2 | Cameron |
| Petrolia | 152 | 6711.7 | Ayrheart, Bear Creek, Bender, Brand, Cartier, Edward, Jacques, L.A.I., Orion, P&E, Petrolia, Stewart, Stevenson, Vye, Williams |
| Petrolia East | 6 | 1832.9 | Ram |
| Plympton 5-19-VI | 3 | 3345.3 | Bluewater |
| Seckerton-Seckerton North | 14 | 2382.5 | Esso |
| Shetland | 1 | 5.3 | Annett |
| Sombra 18-VII | 1 | 108.8 | Ram |
| Sombra 4-9-XII | N/A | 4.3 | Magder |
| Sombra 6-28-IX | 1 | 110.6 | Crawford |
| Sutorville | 1 | 98.9 | Brett |
| Wanstead | 3 | 705.8 | Roth |
| Warwick | 1 | 688.4 | Murphy |
| Warwick 6-17-IV SER | 1 | 50.8 | Bluewater |
| Watford-Kerwood | 1 | 52.9 | 490900 Ontario Ltd |
| Wilsoncroft | 1 | 31.8 | S&W |
| **MANITOULIN** | | | |
| Manitoulin | N/A | 17.7 | Klenk |
| **MIDDLESEX** | | | |
| Ekfrid 10-V S | 1 | 138.2 | Den-Mar |
| Ekfrid 8-V S | 2 | 92.1 | Den-Mar |
| Glencoe | 18 | 352.1 | Ameracrude, Bedford |
| Mosa | 1 | 129.6 | Gaiswinkler |
| Willey North | 5 | 166.0 | A.I.S. |
| **OXFORD** | | | |
| Gobles | 32 | 1438.1 | Gaiswinkler, Rayrock |
| Innerkip | 4 | 277.7 | Ameracrude, Gaiswinkler, Nith |
| Innerkip East | N/A | 9.5 | Ameracrude |
| **TOTAL PRODUCTION** | 941 | 85027.3 | |

TABLE 19: ONTARIO GAS PRODUCTION, 1979-1983.

| COUNTY | POOL NAME | 1979 $10^3m^3$ | 1980 $10^3m^3$ | 1981 $10^3m^3$ | 1982 $10^3m^3$ | 1983 $10^3m^3$ |
|---|---|---|---|---|---|---|
| BRANT | | | | | | |
| | Brant | 565.2 | 439.7 | 485.6 | 327.3 | 350.9 |
| ELGIN | | | | | | |
| | Aldborough 4-20-VII | 0.0 | 22.5 | 77.6 | 351.2 | 18.3 |
| | Cowal | 331.7 | 246.1 | 316.4 | 363.8 | 315.0 |
| | Townline | 2265.1 | 2311.0 | 2311.0 | 2246.4 | 2021.7 |
| HALDIMAND | | | | | | |
| | Haldimand | 1844.8 | 1485.8 | 2476.2 | 1493.1 | 1453.2 |
| | Lincoln | 305.2 | 267.1 | 215.5 | 219.8 | 228.2 |
| HURON | | | | | | |
| | Bayfield | 0.0 | 0.0 | 0.0 | 0.0 | 1705.9 |
| | Tipperary | 0.0 | 525.5 | 1864.5 | 1451.8 | 1013.1 |
| | Tipperary South | 0.0 | 57.7 | 1504.1 | 2389.1 | 1191.6 |
| KENT | | | | | | |
| | Botany | 67.3 | 95.7 | 936.1 | 1029.1 | 631.4 |
| | Camden Gore | 1704.6 | 1192.1 | 1281.5 | 1369.3 | 1449.4 |
| | Chatham | 1314.4 | 1422.4 | 1002.5 | 1163.9 | 1265.5 |
| | Dover | 1450.7 | 2941.1 | 1275.2 | 1494.9 | 1209.4 |
| | Dover 7-10-VI | 0.0 | 297.4 | 44.6 | 47.3 | 112.4 |
| | D'Clute | 253.5 | 202.8 | 283.5 | 223.4 | 209.6 |
| | Morpeth | 778.3 | 881.6 | 843.3 | 701.8 | 756.2 |
| | Tilbury | 7245.3 | 7916.8 | 8568.1 | 6817.9 | 6971.6 |
| | Wolfe | 109.5 | 122.4 | 130.5 | 112.5 | 169.8 |
| | Zone | 1949.8 | 1808.5 | 1853.2 | 1971.1 | 1943.1 |
| LAMBTON | | | | | | |
| | Becher East | 771.5 | 545.2 | 314.9 | 0.0 | 14.6 |
| | Becher West | 1543.2 | 1335.6 | 1342.5 | 958.6 | 1066.2 |
| | Brigden | 1568.8 | 1659.8 | 1317.3 | 1051.4 | 915.2 |
| | Charlemont | 6.0 | 179.1 | 202.2 | 135.9 | 97.2 |
| | Corunna | 0.0 | 0.0 | 0.0 | 141.6 | 176.2 |
| | Coveny | 0.0 | 184.1 | 8064.5 | 3911.6 | 2505.7 |
| | Cromar | 1390.3 | 951.1 | 571.6 | 484.6 | 262.5 |
| | Dawn 1 | 1060.1 | 657.6 | 628.1 | 735.0 | 583.7 |
| | Dawn 5-29-IX | 0.0 | 885.9 | 1358.0 | 1297.0 | 427.3 |
| | Dawn 5-30-IV | 0.0 | 208.3 | 15.7 | 70.4 | 160.7 |
| | Dawn 7-28-V | 0.0 | 1981.0 | 3444.0 | 1604.2 | 1957.0 |
| | Dawn Miscellaneous | 2136.2 | 2905.1 | 3840.2 | 2442.5 | 2602.8 |
| | Edys Mills | 0.0 | 0.0 | 0.0 | 1756.3 | 2835.0 |
| | Edys Mills East | 0.0 | 0.0 | 0.0 | 172.9 | 277.3 |
| | Enniskillen 26 | 1.7 | 0.6 | 0.1 | 0.1 | 0.0 |
| | Moore 3-21-XII | 81373.4 | 79762.8 | 98016.6 | 79671.2 | 61378.0 |
| | Oil City | 0.0 | 0.0 | 0.0 | 0.0 | 2587.2 |
| | Oil Springs East | 22265.0 | 19148.0 | 10153.0 | 6218.0 | 5794.8 |
| | Otter Creek | 946.0 | 785.4 | 346.9 | 433.8 | 1090.1 |
| | Otter Creek East | 139.7 | 474.6 | 471.4 | 441.3 | 605.1 |
| | Sarnia 1-8-A | 0.0 | 0.0 | 0.0 | 0.0 | 308.7 |
| | Sombra 4-9-XII | 0.0 | 0.0 | 384.2 | 1237.7 | 904.7 |
| NORFOLK | | | | | | |
| | Hemlock | 2023.2 | 1735.1 | 1399.2 | 1133.4 | 737.1 |
| | Norfolk | 21985.8 | 26217.6 | 25092.9 | 20387.2 | 19305.4 |
| | Venison Creek | 697.8 | 2407.9 | 3145.7 | 4604.4 | 4181.1 |
| | Wilsonville | 0.0 | 0.0 | 105.4 | 0.0 | 0.0 |
| | Wilsonville South | 422.6 | 344.6 | 45.2 | 0.0 | 0.0 |
| OXFORD | | | | | | |
| | Brownsville | 63.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Innerkip | 6316.5 | 6057.4 | 6394.1 | 7117.2 | 5809.3 |
| | Innerkip East | 582.8 | 472.1 | 521.4 | 577.4 | 391.9 |
| | Norwich South | 47.7 | 70.6 | 26.7 | 0.0 | 0.0 |

TABLE 19: CONTINUED.

| COUNTY POOL NAME | 1979 $10^3m^3$ | 1980 $10^3m^3$ | 1981 $10^3m^3$ | 1982 $10^3m^3$ | 1983 $10^3m^3$ |
|---|---|---|---|---|---|
| WELLAND | | | | | |
| Welland | 2991.7 | 1985.4 | 1914.9 | 2641.9 | 2579.7 |
| WELLINGTON | | | | | |
| Arthur | 793.8 | 1476.8 | 1135.4 | 1267.9 | 1253.6 |
| TOTAL ONSHORE PRODUCTION | 169312.5 | 174665.9 | 195721.5 | 164267.2 | 143824.4 |
| LAKE ERIE PRODUCTION UNIT | | | | | |
| Clear Creek | 32922 | 37334 | 50195 | 43357 | 53614 |
| D'Clute | 2723 | 2144 | 1892 | 2656 | 877 |
| Dover | 25077 | 17824 | 16135 | 14233 | 17207 |
| Leepfrog | 0 | 5107 | 7454 | 6348 | 7417 |
| Maitland | 51106 | 66963 | 71030 | 115654 | 115526 |
| Morpeth | 0 | 47304 | 89008 | 94816 | 103198 |
| Selkirk | 14746 | 14854 | 13828 | 12937 | 12037 |
| Silver Creek | 64935 | 64643 | 55217 | 42710 | 53619 |
| Tilbury | 16754 | 15684 | 14835 | 15977 | 15518 |
| TOTAL LAKE ERIE PRODUCTION | 208263 | 271857 | 319593 | 348688 | 379013 |
| TOTAL GAS PRODUCTION | 377575.5 | 446522.9 | 515314.5 | 512955.3 | 522837.4 |

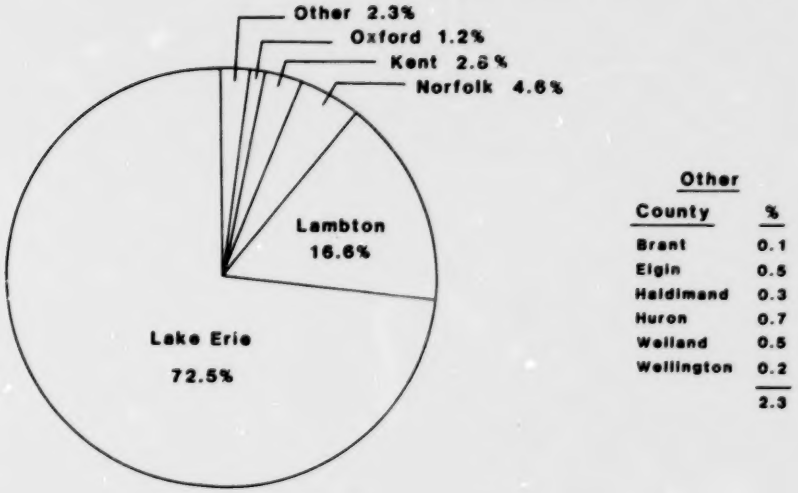



*Figure 23 — Percentage total gas production by area, 1983.*

**TOTAL PRODUCTION 522,837.4 $10^3m^3$**

TABLE 20: GAS PRODUCTION BY GEOLOGICAL AGE, 1978-1983.

| | 1979 % | 1980 % | 1981 % | 1982 % | 1983 % |
|---|---|---|---|---|---|
| Silurian | | | | | |
| Salina-Guelph | 39.6 | 43.7 | 38.3 | 36.1 | 55.5 |
| Clinton-Cataract | 58.0 | 53.7 | 59.5 | 61.5 | 43.0 |
| Ordovician | 0.6 | 1.1 | 0.6 | 0.6 | 0.5 |
| Cambrian | 1.8 | 1.5 | 1.5 | 1.8 | 1.0 |
| TOTAL | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE 21. GAS PRODUCTION BY COUNTY, 1983

| County | Production $10^3m^3$ | % Ontario | % Land |
|---|---|---|---|
| Brant | 350.9 | 0.1 | 0.2 |
| Elgin | 2,355.0 | 0.5 | 1.6 |
| Haldimand | 1,681.4 | 0.3 | 1.2 |
| Huron | 3,910.6 | 0.7 | 2.7 |
| Kent | 14,718.4 | 2.8 | 10.3 |
| Lambton | 86,550.0 | 16.6 | 60.2 |
| Norfolk | 24,223.6 | 4.6 | 16.8 |
| Oxford | 6,201.2 | 1.2 | 4.3 |
| Welland | 2,579.7 | 0.5 | 1.8 |
| Wellington | 1,253.6 | 0.2 | .9 |
| SUBTOTAL | 143,824.4 | | |
| Lake Erie | 379,013.0 | 72.5 | N/A |
| TOTAL | 522,837.4 | 100.0% | 100.0% |

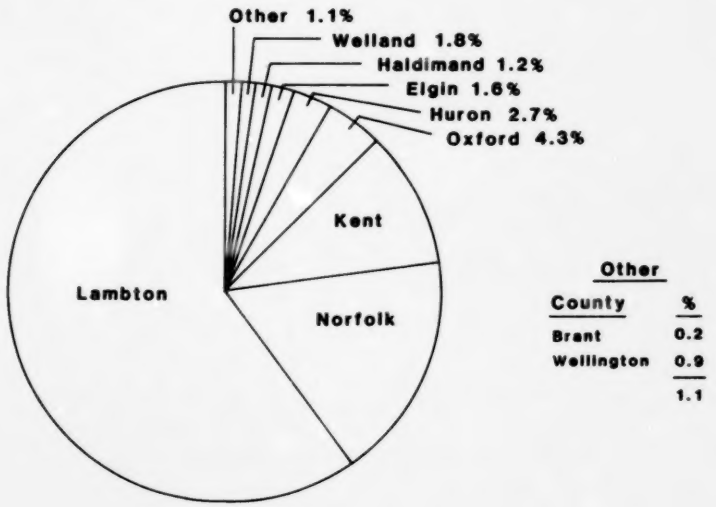



*Figure 24 — Percentage land gas production by county, 1983.*

TABLE 22: GAS PRODUCTION BY POOL OR FIELD, 1983.

| County/Pool Name | Active Wells | Production 1983 $10^3m^3$ | Operator 1983 |
|---|---|---|---|
| **BRANT** | | | |
| Brant | 22 | 350.9 | Hyslop |
| **ELGIN** | | | |
| Aldborough 4-20-VII | 1 | 18.3 | Coates |
| Cowal | 2 | 315.0 | Union |
| Townline | 9 | 2021.7 | Union |
| **HALDIMAND** | | | |
| Haldimand | 146 | 1453.2 | Fisherville, Glenfred, Hyslop, Marr, Wellandport, Haldimand |
| Lincoln | 11 | 228.2 | Consumers' |
| **HURON** | | | |
| Bayfield | 2 | 1705.9 | Tipperary |
| Tipperary | 2 | 1013.1 | Tipperary |
| Tipperary South | 1 | 1191.6 | Tipperary |
| **KENT** | | | |
| Botany | 2 | 631.4 | Cameron |
| Camden Gore | 11 | 1449.4 | Union |
| Chatham | 13 | 1265.5 | Union, York |
| Dover | 4 | 1209.4 | Union |
| Dover 7-10-VI | 1 | 112.4 | J.W.K. |
| D'Clute | 1 | 209.6 | Union |
| Morpeth | 8 | 756.2 | Pegg |
| Tilbury | 29 | 6971.6 | Union |
| Wolfe | 1 | 169.8 | Bedford |
| Zone | 27 | 1943.1 | Union |
| **LAMBTON** | | | |
| Becher East | 1 | 14.6 | Murphy |
| Becher West | 26 | 1066.2 | Murphy |
| Brigden | 2 | 915.2 | Consumers' |
| Charlemont | 1 | 97.2 | Cameron |
| Corunna | 1 | 176.2 | Esso |
| Coveny | 1 | 2505.7 | Union |
| Cromar | 1 | 262.5 | Forbes |
| Dawn 1 | 7 | 583.7 | Union |
| Dawn 5-29-IX | 1 | 427.3 | Forbes |
| Dawn 5-30-IV | 2 | 160.7 | Union |
| Dawn 7-28-V | 2 | 1957.0 | Union |
| Dawn Miscellaneous | 16 | 2602.8 | Colonial, Union, et al |
| Edys Mills | 3 | 2835.0 | Ram |
| Edys Mills East | 1 | 277.3 | Ram |
| Moore 3-21-XII | 3 | 61378.0 | Dome |
| Oil City | 1 | 2587.2 | Union |
| Oil Springs East | 1 | 5794.8 | Talcorp |
| Otter Creek | 6 | 1090.1 | Cameron, Ram |
| Otter Creek East | 3 | 605.1 | Brett |
| Sarnia 1-8-A | 2 | 308.7 | Dow |
| Sombra 4-9-XII | 1 | 904.7 | S.W. Petroleum |

CONTINUED

TABLE 22: CONTINUED.

| County/Pool Name | Active Wells | Production 1983 $10^3m^3$ | Operator 1983 |
|---|---|---|---|
| **NORFOLK** | | | |
| Hemlock | 8 | 737.1 | Hemlock, Venison |
| Norfolk | 157 | 19305.4 | Bayview, Chatham, Colonial, Consumers', Craven, Freeman, Metalore, Morrison, Starlite, Stuyt, Yuez |
| Venison Creek | 13 | 4181.1 | Explorer |
| **OXFORD** | | | |
| Innerkip | 4 | 5809.3 | Ameracrude, Nith |
| Innerkip East | 1 | 391.9 | Ameracrude |
| **WELLAND** | | | |
| Welland | 61 | 2579.7 | Consumers', Fox, Lincoln, Ort, Petroleum Royalties, Ruch, Mymryk, Wellandport |
| **WELLINGTON** | | | |
| Arthur | 3 | 1253.6 | Kenartha |
| ONSHORE SUBTOTAL | 622 | 143824.4 | |
| **LAKE ERIE PRODUCTION UNITS** | | | |
| Clear Creek | 64 | 53614 | Consumers' |
| D'Clute | 11 | 877 | C.W.P. |
| Dover | 52 | 17207 | C.W.P., Mitchell, Place |
| Leepfrog | 8 | 7417 | Consumers' |
| Maitland | 158 | 115526 | Mitchell, Pembina, Place |
| Morpeth | 19 | 103198 | Consumers' |
| Selkirk | 78 | 12037 | Mitchell, Place |
| Silver Creek | 57 | 53619 | Consumers' |
| Tilbury | 73 | 15518 | C.W.P. |
| LAKE ERIE SUBTOTAL | 520 | 379013 | |
| **TOTAL** | 1142 | 522837.4 | |

## TABLE23. CUMULATIVE PRODUCTION, PROVEN RECOVERABLE RESERVES AND REMAINING RECOVERABLE RESERVES BY POOL OR FIELD (ONSHORE) 1983.

| POOL NAME | DISC DATE | AV DEPTH | PRODUCTION ZONE | TRAP TYPE | STATUS | DATE ABAN | CUMUL GAS PROD THRU 1983 10³m³ | PROVEN RECV'BLE GAS RESERVES 10³m³ | REMAING RECV'BLE GAS RESERVES 10³m³ | CUMUL OIL PROD THRU 1983 m³ | PROVEN RECV'BLE OIL RESERVES m³ | REMAING RECV'BLE OIL RESERVES m³ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GEOLOGICAL AGE Devonian | | | | | | | | | | | | |
| * COUNTY Elgin | | | | | | | | | | | | |
| DUTTON | 1923 | 98 | Dundee | Fractured and dolomitized carbonates associated with a structural high | Abandoned | 1927 | 0.0 | 0.0 | 0.0 | 440.4 | 440.4 | 0.0 |
| RODNEY | 1949 | 122 | Columbus | Fractured and dolomitized carbonates associated with a structural high | Producing | | 0.0 | 0.0 | 0.0 | 1416168.8 | 1690000.0 | 273831.2 |
| WALLACETOWN | 1898 | 110 | Detroit River | Fractured and dolomitized carbonates associated with a structural high | Producing | | 0.0 | 0.0 | 0.0 | 39533.8 | 39434.4 | -99.4 |
| * Subsubtotal * | | | | | | | 0.0 | | | 1456143.0 | | |
| * COUNTY Essex | | | | | | | | | | | | |
| BELLE RIVER | 1913 | 35 | Dundee | Fractured and dolomitized carbonates associated with a structural high | Abandoned | 1918 | 0.0 | 0.0 | 0.0 | 348.9 | 348.9 | 0.0 |
| * Subsubtotal * | | | | | | | 0.0 | | | 348.9 | | |
| * COUNTY Kent | | | | | | | | | | | | |
| BOTHWELL-THAMESVILLE | 1862 | 110 | Dundee-Detroit River | Fractured and dolomitized carbonates associated with a structural high | Producing | | 0.0 | 0.0 | 0.0 | 501305.0 | 525000.0 | 23695.0 |
| HOWARD 4-2-5-I | 1983 | 103 | Dundee | Fractured and dolomitized carbonates associated with a structural high | Suspended | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KIPP | 1903 | 116 | Dundee | Fractured and dolomitized carbonates associated with a structural high | Abandoned | <1946 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PRAIRIE SIDING | 1920 | 76 | Dundee | Fractured and dolomitized carbonates associated with a structural high | Abandoned | 1945 | 0.0 | 0.0 | 0.0 | 1172.8 | 1172.8 | 0.0 |
| RALEIGH | 1902 | 122 | Dundee | Fractured and dolomitized carbonates associated with a structural high | Abandoned | 1905 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| RICHARDSON SIDING | <1921 | 112 | Dundee | Fractured and dolomitized carbonates associated with a structural high | Abandoned | 1959 | 0.0 | 0.0 | 0.0 | 40.4 | 40.4 | 0.0 |
| ROMNEY | 1906 | 75 | Dundee | Fractured and dolomitized carbonates associated with a structural high | Abandoned | 1910 | 0.0 | 0.0 | 0.0 | 9862.0 | 9862.0 | 0.0 |
| STEWART | 1966 | 116 | Dundee | Fractured and dolomitized carbonates associated with a structural high | Abandoned | 1968 | 0.0 | 0.0 | 0.0 | 44.4 | 44.4 | 0.0 |
| WABASH | 1956 | 101 | Dundee | Fractured and dolomitized carbonates associated with a structural high | Abandoned | 1961 | 0.0 | 0.0 | 0.0 | 337.2 | 337.2 | 0.0 |
| ZONE 6-5-IV | 1980 | 77 | Dundee | Fractured and dolomitized carbonates associated with a structural high | Producing | | 0.0 | 0.0 | 0.0 | 162.2 | 0.0 | -162.2 |
| * Subsubtotal * | | | | | | | 0.0 | | | 512924.0 | | |

## TABLE23. CUMULATIVE PRODUCTION, PROVEN RECOVERABLE RESERVES AND REMAINING RECOVERABLE RESERVES BY POOL OR FIELD (ONSHORE) 1983.

| POOL NAME | DISC DATE | AV DEPTH | PRODUCTION ZONE | TRAP TYPE | STATUS | DATE ABAN | CUMUL GAS PROD THRU 1983 $10^3m^3$ | PROVEN RECV'BLE GAS RESERVES $10^3m^3$ | REMAING RECV'BLE GAS RESERVES $10^3m^3$ | CUMUL OIL PROD THRU 1983 $m^3$ | PROVEN RECV'BLE OIL RESERVES $m^3$ | REMAING RECV'BLE OIL RESERVES $m^3$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *** COUNTY Lambton** | | | | | | | | | | | | |
| BROOKE 2-24-X | 1983 | 126 | Dundee | Fractured and dolomitized carbonates associated with a structural high | Suspended | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BROOKE 3-3-2-VIII | 1983 | 126 | Dundee | Fractured and dolomitized carbonates associated with a structural high | Suspended | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BROOKE 5-14-XII | 1983 | 140 | Dundee | Fractured and dolomitized carbonates associated with a structural high | Suspended | | 0.0 | 0.0 | 0.0 | 12.1 | 0.0 | -12.1 |
| DANTE | 1948 | 75 | Dundee | Fractured and dolomitized carbonates associated with a structural high | Abandoned | 1965 | 0.0 | 0.0 | 0.0 | 2721.6 | 2721.6 | 0.0 |
| FLORENCE-OAKDALE | 1897 | 98 | Dundee-Columbus | Fractured and dolomitized carbonates associated with a structural high | Abandoned | 1965 | 0.0 | 0.0 | 0.0 | 3895.2 | 3895.2 | 0.0 |
| INWOOD | <1915 | 122 | Dundee | Fractured and dolomitized carbonates associated with a structural high | Abandoned | 1953 | 0.0 | 0.0 | 0.0 | 522.4 | 522.4 | 0.0 |
| McCREADY | 1932 | 95 | Dundee | Fractured and dolomitized carbonates associated with a structural high | Abandoned | 1965 | 0.0 | 0.0 | 0.0 | 985.7 | 985.7 | 0.0 |
| OIL SPRINGS | 1858 | 115 | Dundee-Detroit River | Fractured and dolomitized carbonates associated with a structural high | Producing | | 0.0 | 0.0 | 0.0 | 1490545.0 | 1478815.0 | -11730.0 |
| PAYNE | 1954 | 154 | Dundee | Fractured and dolomitized carbonates associated with a structural high | Abandoned | 1960 | 0.0 | 0.0 | 0.0 | 121.3 | 121.3 | 0.0 |
| PETROLIA | 1862 | 121 | Dundee-Detroit River | Fractured and dolomitized carbonates associated with a structural high | Producing | | 0.0 | 0.0 | 0.0 | 2772444.1 | 2852764.0 | 80319.9 |
| PLYMPTON-SARNIA | 1898 | 115 | Dundee | Fractured and dolomitized carbonates associated with a structural high | Abandoned | 1951 | 845.7 | 845.7 | 0.0 | 1881.6 | 1881.6 | 0.0 |
| SHETLAND | 1886 | 113 | Dundee-Detroit River | Fractured and dolomitized carbonates associated with a structural high | Abandoned | 1971 | 0.0 | 0.0 | 0.0 | 6351.4 | 6351.4 | 0.0 |
| WATFORD-KERWOOD | 1933 | 113 | Dundee-Detroit River | Fractured and dolomitized carbonates associated with a structural high | Producing | | 0.0 | 0.0 | 0.0 | 21524.2 | 21471.3 | -52.9 |
| WILSONCROFT | 1927 | 122 | Dundee | Fractured and dolomitized carbonates associated with a structural high | Producing | | 0.0 | 0.0 | 0.0 | 210.6 | 170.0 | -40.6 |
| *** Subsubtotal *** | | | | | | | 845.7 | | | 4301215.2 | | |
| *** COUNTY Middlesex** | | | | | | | | | | | | |
| ADELAIDE | <1915 | 100 | Dundee | Fractured and dolomitized carbonates associated with a structural high | Abandoned | Unkn | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLENCOE | 1917 | 92 | Dundee-Columbus | Fractured and dolomitized carbonates associated with a structural high | Producing | | 0.0 | 0.0 | 0.0 | 172486.8 | 171841.2 | -645.6 |
| *** Subsubtotal *** | | | | | | | 0.0 | | | 172486.8 | | |
| **** Subtotal **** | | | | | | | 845.7 | | | 6443117.9 | | |
| **** GEOLOGICAL AGE Silurian** | | | | | | | | | | | | |
| *** COUNTY Brant** | | | | | | | | | | | | |
| BRANT | 1903 | 175 | Clinton-Cataract | Porosity and permeability pinchouts in sandstone | Producing | | 69959.0 | 69959.0 | 0.0 | 6862.0 | 6862.0 | 0.0 |
| *** Subsubtotal *** | | | | | | | 69959.0 | | | 6862.0 | | |

## TABLE23. CUMULATIVE PRODUCTION, PROVEN RECOVERABLE RESERVES AND REMAINING RECOVERABLE RESERVES BY POOL OR FIELD (ONSHORE) 1983.

| POOL NAME | DISC DATE | AV DEPTH | PRODUCTION ZONE | TRAP TYPE | STATUS | DATE ABAN | CUMUL GAS PROD THRU 1983 $10^3m^3$ | PROVEN RECV'BLE GAS RESERVES $10^3m^3$ | REMAING RECV'BLE GAS RESERVES $10^3m^3$ | CUMUL OIL PROD THRU 1983 $m^3$ | PROVEN RECV'BLE OIL RESERVES $m^3$ | REMAING RECV'BLE OIL RESERVES $m^3$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *** COUNTY Elgin** | | | | | | | | | | | | |
| ALDBOROUGH 4-20-VII | 1974 | 431 | A1-Carbonates | | Producing | | 469.6 | 3435.0 | 2965.4 | 0.0 | 0.0 | 0.0 |
| BAYHAM | 1910 | 400 | Thorold, Grimsby, Irod. | Porosity and permeability pinchouts in sandstone | Abandoned | 1976 | 174883.0 | 174883.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| COWAL | 1950 | 365 | A1, A2-Carb. Guelph | Dolomitized bioherm patch reef | Producing | | 14033.5 | 15122.5 | 1089.0 | 0.0 | 0.0 | 0.0 |
| CRINAN | 1954 | 446 | A1-Carb. | Dolomitized zone in anticline | Abandoned | 1969 | 0.0 | 0.0 | 0.0 | 434.7 | 434.7 | 10.0 |
| DUNWICH 3-7-ABF | 1980 | 430 | A1-Carb. | Dolomitized zone in dome | Suspended | | 0.0 | 3582.0 | 3582.0 | 0.0 | 0.0 | 0.0 |
| MALAHIDE | 1938 | 335 | Guelph | Dolomitized pinnacle reef | Abandoned | 1954 | 119973.5 | 119973.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| PORT TALBOT | 1918 | 462 | Thorold | Porosity and permeability pinchouts in sandstone | Abandoned | 1922 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TOWNLINE | 1948 | 420 | A1, A2-Carb. | Dolomitized zone in anticline | Producing | | 64656.3 | 108550.0 | 43893.7 | 0.0 | 0.0 | 0.0 |
| WOODGREEN | 1948 | 430 | A1-Carb. | Dolomitized zone in anticline | Abandoned | 1960 | 16996.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| *** Subsubtotal *** | | | | | | | 391012.7 | | | 434.7 | | |
| *** COUNTY Essex** | | | | | | | | | | | | |
| ATLAS | 1959 | 291 | A1-Carb. Guelph | Dolomitized bioherm patch reef | Shut-In | | 73414.2 | 197475.8 | 124061.6 | 152.0 | 152.0 | 0.0 |
| COMBER | 1902 | 365 | Guelph | Dolomitized bioherm patch reef | Abandoned | 1920 | 0.0 | 0.0 | 0.0 | 104.0 | 104.0 | 0.0 |
| KINGSVILLE-LEAMINGTON-MERSEA | 1889 | 290 | A1-Carb. Guelph | Dolomitized bioherm patch reef | Abandoned | 1970 | 670216.4 | 670216.4 | 0.0 | 9729.1 | 9729.1 | 0.0 |
| MALDEN | 1946 | 254 | A1-Carb. | Dolomitized stromatolitic mound | Local use | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OXLEY | 1964 | 275 | A1-Carb. Guelph | Dolomitized monadnock on Guelph surface | Suspended | | 1737.7 | 1737.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| PELEE ISLAND 1 | 1895 | 229 | A1-Carb. Guelph | Erosional remnant on Guelph surface | Abandoned | 0.0 | 0.0 | 0.0 | 0.0 | 222.7 | 222.7 | 0.0 |
| PELEE ISLAND 2 | 1964 | 275 | Guelph | Erosional remnant on Guelph surface | Abandoned | 1965 | 0.0 | 0.0 | 0.0 | 73.9 | 73.9 | 0.0 |
| STAPLES | 1948 | 350 | A1-Carb. Guelph | Dolomitized bioherm patch reef | Suspended | | 3263.9 | 3263.9 | 0.0 | 732.1 | 732.1 | 0.0 |
| *** Subsubtotal *** | | | | | | | 748632.2 | | | 11013.8 | | |
| *** COUNTY Haldimand** | | | | | | | | | | | | |
| HALDIMAND | 1891 | 215 | Thorold, Grimsby, Whirl. | Porosity and permeability pinchouts in sandstone | Producing | | 1592216.3 | 1564491.0 | -27725.3 | 0.0 | 0.0 | 0.0 |
| HALDIMAND-NORFOLK | 1892 | | Thorold, Grimsby, Whirl. | Porosity and permeability pinchouts in sandstone | Divided | 1929 | 1628349.0 | 1628349.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| *** Subsubtotal *** | | | | | | | 3220565.3 | | | 0.0 | | |
| *** COUNTY Huron** | | | | | | | | | | | | |
| ASHFIELD 5-IX WD | 1979 | 556 | Guelph | Pinnacle reef | Suspended | | 0.0 | 27275.0 | 27275.0 | 0.0 | 0.0 | 0.0 |
| ASHFIELD 7-1-III ED | 1979 | 582 | Guelph | Pinnacle reef | Suspended | | 0.0 | 38407.0 | 38407.0 | 0.0 | 0.0 | 0.0 |
| BAYFIELD | 1956 | 530 | Guelph | Dolomitized pinnacle reef | Producing | | 63161.7 | 61618.6 | -1543.1 | 0.0 | 0.0 | 0.0 |
| DASHWOOD | 1955 | 529 | Guelph | Dolomitized pinnacle reef | Suspended | | 0.0 | 43316.0 | 43316.0 | 0.0 | 0.0 | 0.0 |
| DUNGANNON | 1967 | 510 | Guelph | Dolomitized pinnacle reef | Suspended | | 0.0 | 21871.0 | 21871.0 | 0.0 | 0.0 | 0.0 |
| GRAND BEND | 1955 | 545 | Guelph | Dolomitized pinnacle reef | Producing | | 0.0 | 0.0 | 0.0 | 94656.6 | 109236.8 | 14580.2 |
| STANLEY 4-7-XI | 1982 | 540 | Guelph | Dolomitized pinnacle reef | Suspended | | 0.0 | 5297.0 | 5297.0 | 0.0 | 0.0 | 0.0 |
| TIPPERARY | 1969 | 571 | Guelph | Dolomitized pinnacle reef | Producing | | 4854.9 | 9278.0 | 4423.1 | 661.1 | 909.0 | 247.9 |
| TIPPERARY SOUTH | 1979 | 537 | Guelph | Dolomitized pinnacle reef | Producing | | 5142.5 | 17828.0 | 12685.5 | 168.1 | 0.0 | -168.1 |
| WEST WAWANOSH 26-X | 1968 | 509 | Guelph | Dolomitized pinnacle reef | Suspended | | 0.0 | 15490.0 | 15490.0 | 0.0 | 0.0 | 0.0 |
| ZURICH | 1954 | 577 | Guelph | Dolomitized pinnacle reef | Suspended | | 0.0 | 35858.0 | 35858.0 | 0.0 | 0.0 | 0.0 |
| *** Subsubtotal *** | | | | | | | 73159.1 | | | 95485.8 | | |

## TABLE23. CUMULATIVE PRODUCTION, PROVEN RECOVERABLE RESERVES AND REMAINING RECOVERABLE RESERVES BY POOL OR FIELD (ONSHORE) 1983.

| POOL NAME | DISC DATE | AV DEPTH | PRODUCTION ZONE | TRAP TYPE | STATUS | DATE ABAN | CUMUL GAS PROD THRU 1983 $10^3 m^3$ | PROVEN RECV'BLE GAS RESERVES $10^3 m^3$ | REMAING RECV'BLE GAS RESERVES $10^3 m^3$ | CUMUL OIL PROD THRU 1983 $m^3$ | PROVEN RECV'BLE OIL RESERVES $m^3$ | REMAING RECV'BLE OIL RESERVES $m^3$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *** COUNTY Kent** | | | | | | | | | | | | |
| BOTANY | 1958 | 540 | A1–Carb. | Dolomitized stomatolitic mound | Producing | | 7259.1 | 11587.2 | 4328.1 | 0.0 | 0.0 | 0.0 |
| CAMDEN GORE | 1936 | 465 | A1, A2– Carb. Guelph | Dolomitized zones in A1, A2 in anticline | Producing | | 77398.6 | 84098.0 | 6699.4 | 0.0 | 0.0 | 0.0 |
| CHATHAM | 1936 | 465 | A1, A2–Carb. Guelph | Dolomitized pinnacle reef | Producing | | 188167.3 | 191030.0 | 2862.7 | 14271.0 | 17232.0 | 2961.0 |
| CHATHAM GORE | 1951 | 543 | A1–Carb. | Dolomitization of A1 Carbonate | Abandoned | 1968 | 617.0 | 617.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D'CLUTE | 1929 | 470 | A1, A2–Carb. Guelph | Dolomitized bioherm patch reef | Producing | | 783768.8 | 793815.0 | 10046.2 | 500.2 | 500.2 | 0.0 |
| DOYLES | 1917 | 475 | Salina, Guelph | Dolomitized bioherm patch reef | Abandoned | 1970 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DRESDEN | 1936 | 447 | A1, A2–Carb. | Dolomitized zones in A1, A2 in anticline | Oil prod. | | 23495.6 | 23495.6 | 0.0 | 5845.2 | 6364.0 | 518.8 |
| FLETCHER | 1905 | 440 | A1–Carb. Guelph | Dolomitized bioherm patch reef | Producing | | 0.0 | 0.0 | 0.0 | 191145.6 | 191000.0 | -145.6 |
| GLENWOOD | 1906 | 425 | Guelph | Dolomitized bioherm patch reef | Abandoned | 1921 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GUILDS | 1953 | 475 | A2–Carb. | Dolomitized stomatolitic mound | Private | | 7606.0 | 7606.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MORPETH | 1954 | 500 | A2–Carb. | Dolomitized stomatolitic mound | Producing | | 155550.6 | 170820.7 | 15270.1 | 25.0 | 0.0 | -25.0 |
| NEW WHEATLEY | 1948 | 393 | Guelph | Erosional remnant on Guelph surface | Abandoned | 1954 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ST. PATRICKS | 1971 | 449 | Guelph | Dolomitized bioherm patch reef | Suspended | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TILBURY | 1906 | 375 | A1, A2–Carb. Guelph | Dolomitized bioherm patch reef | Producing | | 7578560.1 | 8137927.0 | 559366.9 | 497.9 | 497.9 | 0.0 |
| WHEATLEY | 1902 | 395 | Guelph | Erosional remnant on Guelph surface | Abandoned | 1919 | 0.0 | 0.0 | 0.0 | 1447.0 | 1447.0 | 0.0 |
| WOLFE | 1952 | 470 | A2–Carb. | Dolomitized stromatolitic mound | Producing | | 6664.4 | 7803.0 | 1138.6 | 0.0 | 0.0 | 0.0 |
| ZONE | 1943 | 458 | A1, A2–Carb. | Dolomitized zone in anticline and dome | Producing | | 263544.0 | 335623.6 | 72079.6 | 0.0 | 0.0 | 0.0 |
| *** Subsubtotal *** | | | | | | | 9092631.5 | | | 213731.9 | | |
| *** COUNTY Lambton** | | | | | | | | | | | | |
| AVONRY | 1963 | 665 | Guelph | Dolomitized incipient bioherm reef | Private | | 10616.9 | 10616.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| BEAVER MEADOW | 1963 | 597 | A1–Carb. Guelph | Structural trap on upside of fault | Producing | | 0.0 | 0.0 | 0.0 | 12892.9 | 12842.1 | -50.8 |
| BECHER EAST | 1946 | 585 | Guelph | Trap on upside of fault | Producing | | 33655.6 | 35162.0 | 1506.4 | 0.0 | 0.0 | 0.0 |
| BECHER WEST | 1946 | 575 | A1–Carb. Guelph | Dolomitized zones in anticline | Producing | | 172871.3 | 170846.5 | -2024.8 | 368209.3 | 426048.0 | 57838.7 |
| BENTPATH | 1970 | 530 | Guelph | Dolomitized pinnacle reef | Gas Stor. | | 151775.1 | 158255.7 | 6480.6 | 0.0 | 0.0 | 0.0 |
| BICKFORD | 1950 | 600 | A1–Carb. Guelph | Dolomitized pinnacle reef | Gas Stor. | | 537871.2 | 596024.2 | 58153.0 | 184.4 | 184.4 | 0.0 |
| BRIGDEN | 1963 | 660 | A1–Carb. | Dolomitized zone along fault | Producing | | 69808.3 | 74095.7 | 4287.4 | 10564.9 | 11536.0 | 971.1 |
| BROOKE | 1965 | 517 | Guelph | Dolomitized incipient bioherm reef | Producing | | 0.0 | 0.0 | 0.0 | 41236.4 | 49391.0 | 8154.6 |
| BROOKE 1-9-X | 1978 | 572 | Guelph | Pinnacle reef | Producing | | 0.0 | 0.0 | 0.0 | 3437.9 | 3771.5 | 333.6 |
| CHARLEMONT | 1954 | 497 | A2–Carb. | Dolomitized zone in dome | Producing | | 10000.4 | 10878.3 | 877.9 | 0.0 | 0.0 | 0.0 |
| CLAY CREEK | 1966 | 692 | Guelph | Dolomitized bioherm incipient reef | Abandoned | 1970 | 0.0 | 0.0 | 0.0 | 1133.4 | 1133.4 | 0.0 |
| COLINVILLE EAST | 1976 | 723 | Guelph | Dolomitized pinnacle reef | Suspended | | 0.0 | 8589.0 | 8589.0 | 0.0 | 0.0 | 0.0 |
| COREY EAST | 1978 | 580 | Guelph | Dolomitized pinnacle reef | Producing | | 0.0 | 0.0 | 0.0 | 11953.9 | 33860.0 | 21906.1 |
| CORUNNA | 1950 | 700 | A1–Carb. Guelph | Dolomitized pinnacle reef | Oil Prod. | | 117978.5 | 136182.9 | 18204.4 | 231536.8 | 240149.0 | 8612.2 |
| COURTRIGHT | 1966 | 738 | Guelph | Dolomitized incipient bioherm reef | Suspended | | 17761.0 | 23892.6 | 6131.6 | 0.0 | 0.0 | 0.0 |
| COVENY | 1971 | 610 | Guelph | Dolomitized incipient bioherm reef | Producing | | 21226.8 | 80857.0 | 59630.2 | 0.0 | 0.0 | 0.0 |
| CROMAR | 1969 | 642 | Guelph | Dolomitized incipient bioherm reef | Producing | | 15619.1 | 24549.9 | 8930.8 | 6006.2 | 19652.0 | 13645.8 |
| DAWN 1 | 1914 | 481 | A1, A2–Carb. | Dolomitized zones in flanking beds draping over Guelph incipient bioherm reefs | Producing | | 32680.2 | 45643.0 | 12762.8 | 0.0 | 0.0 | 0.0 |
| DAWN 1-27-VI | 1977 | 518 | A1–Carb. Guelph | Pinnacle reef | Suspended | | 0.0 | 179307.0 | 179307.0 | 0.0 | 0.0 | 0.0 |
| DAWN 156 | 1952 | 550 | A1, A2–Carb. Guelph | Dolomitized pinnacle reef | Oil Prod. | | 628622.0 | 844805.3 | 216183.3 | 42490.0 | 43229.0 | 739.0 |
| DAWN 167 | 1952 | 515 | A1, A2–Carb. Guelph | Dolomitized pinnacle reef | Gas Stor. | | 141395.2 | 191967.3 | 50572.1 | 0.0 | 0.0 | 0.0 |
| DAWN 2-30-XIV | 1974 | 519 | A1–Carb. Guelph | Dolomitized incipient bioherm reef | Suspended | | 0.0 | 4046.0 | 4046.0 | 0.0 | 0.0 | 0.0 |
| DAWN 28-II | 1973 | 599 | Guelph | Dolomitized incipient bioherm reef | Producing | | 0.0 | 0.0 | 0.0 | 1955.6 | 12879.0 | 10923.4 |
| DAWN 4-28-III | 1967 | 584 | A1–Carb. Guelph | Dolomitized incipient bioherm reef | Suspended | | 0.0 | 14517.0 | 14517.0 | 409.6 | 570.0 | 160.4 |
| DAWN 47-49 | 1930 | 540 | A1, A2–Carb. Guelph | Dolomitized pinnacle reef | Storage | | 143566.3 | 151016.6 | 7450.3 | 0.0 | 0.0 | 0.0 |
| DAWN 5-29-IX | 1971 | 550 | A1–Carb. Guelph | Dolomitized incipient bioherm reef | Producing | | 3968.2 | 4066.2 | 98.0 | 608.5 | 615.5 | 7.0 |
| DAWN 5-30-IV | 1970 | 586 | Guelph | Dolomitized incipient bioherm reef | Producing | | 453.1 | 39574.0 | 39120.9 | 0.0 | 0.0 | 0.0 |
| DAWN 5-30-X | 1978 | 563 | Guelph | Dolomitized incipient bioherm reef | Suspended | | 0.0 | 6923.0 | 6923.0 | 0.0 | 0.0 | 0.0 |
| DAWN 59-85 | 1931 | 490 | A1, A2–Carb. Guelph | Dolomitized pinnacle reef | Storage | | 233224.4 | 245377.1 | 12152.7 | 0.0 | 0.0 | 0.0 |
| DAWN 7-28-V | 1974 | 573 | A1–Carb. Guelph Goat Is. | Pinnacle reef | Producing | | 8986.2 | 26906.1 | 17919.9 | 0.0 | 0.0 | 0.0 |
| DAWN MISCELLANEOUS | 1921 | 530 | A1, A2–Carb. Guelph | Dolomitized zones in pinnacle reef and flanking beds | Producing | | 151414.4 | 169587.0 | 18172.6 | 43481.4 | 47050.0 | 3568.6 |
| DUTHILL | 1950 | 516 | Guelph | Dolomitized pinnacle reef | Abandoned | 1956 | 138.1 | 138.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| EDYS MILLS | 1977 | 610 | Guelph | Dolomitized pinnacle reef | Producing | | 4591.3 | 69483.0 | 64891.7 | 7876.6 | 18819.5 | 10942.9 |
| EDYS MILLS EAST | 1977 | 537 | Guelph | Dolomitized incipient bioherm reef | Suspended | | 450.2 | 13387.0 | 12936.8 | 0.0 | 0.0 | 0.0 |

## TABLE23. CUMULATIVE PRODUCTION, PROVEN RECOVERABLE RESERVES AND REMAINING RECOVERABLE RESERVES BY POOL OR FIELD (ONSHORE) 1983.

| POOL NAME | DISC DATE | AV. PRODUCTION ZONE DEPTH | TRAP TYPE | STATUS | DATE ABAN | CUMUL GAS PROD THRU 1983 $10^3m^3$ | PROVEN RECV'BLE GAS RESERVES $10^3m^3$ | REMAING RECV'BLE GAS RESERVES $10^3m^3$ | CUMUL OIL PROD THRU 1983 $m^3$ | PROVEN RECV'BLE OIL RESERVES $m^3$ | REMAING RECV'BLE OIL RESERVES $m^3$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ENNISKILLEN 2-30-IX | 1977 | 600 Guelph | Dolomitized pinnacle reef | Producing | | 0.0 | 0.0 | 0.0 | 2549.0 | 2511.4 | -37.6 |
| ENNISKILLEN 26 | 1952 | 655 Guelph | Dolomitized zone along fault pinnacle reef | Producing | | 1598.8 | 12099.9 | 10501.1 | 0.0 | 0.0 | 0.0 |
| ENNISKILLEN 28 | 1954 | 580 Guelph | Dolomitized pinnacle reef | Gas Stor. | | 55081.5 | 67253.6 | 12192.1 | 0.0 | 0.0 | 0.0 |
| ENNISKILLEN 6-15-II | 1978 | 594 Guelph | Dolomitized incipient bioherm reef | Suspended | | 0.0 | 0.0 | 0.0 | 0.0 | 5876.0 | 5876.0 |
| KIMBALL-COLINVILLE | 1947 | 660 A1-Carb. Guelph | Dolomitized zones in pinnacle reefs and anticline | Gas Stor. | | 970269.9 | 1196747.9 | 226478.0 | 16806.2 | 19845.6 | 2949.4 |
| LADYSMITH | 1970 | 475 Guelph | Dolomitized pinnacle reef | Producing | | 0.0 | 65594.0 | 65594.0 | 76310.0 | 93207.0 | 16897.0 |
| LOGIERAIT | 1956 | 749 Guelph | Dolomitized incipient bioherm reef | Local use | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MANDAUMIN | 1956 | 671 Guelph | Dolomitized pinnacle reef | Suspended | | 53979.5 | 58396.4 | 4416.9 | 0.0 | 0.0 | 0.0 |
| MOORE 3-21-XII | 1977 | 725 Guelph | Dolomitized pinnacle reef | Producing | | 436939.1 | 551408.9 | 114469.8 | 0.0 | 0.0 | 0.0 |
| MOORE 5-6-III | 1980 | 634 Guelph | Dolomitized pinnacle reef | Suspended | | 0.0 | 8652.0 | 8652.0 | 0.0 | 0.0 | 0.0 |
| MOORE 7-6-III | 1981 | 654 Guelph | Dolomitized pinnacle reef | Producing | | 0.0 | 0.0 | 0.0 | 1830.7 | 7093.0 | 5262.3 |
| OIL CITY | 1975 | 565 A1-Carb. Guelph | Pinnacle reef | Suspended | | 2587.2 | 88654.0 | 84066.8 | 0.0 | 0.0 | 0.0 |
| OIL SPRINGS | 1913 | 580 Guelph | Dolomitized incipient bioherm reef | Abandoned | 1948 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OIL SPRINGS EAST | 1974 | 569 Guelph | Dolomitized pinnacle reef | Producing | | 113890.6 | 125923.0 | 12032.4 | 962.8 | 892.9 | -69.9 |
| OSBORNE | 1975 | 723 Guelph | Dolomitized bioherm patch reef | Producing | | 0.0 | 36560.0 | 36560.0 | 3125.1 | 3118.0 | -7.1 |
| OTTER CREEK | 1968 | 590 A1-Carb. Guelph | Dolomitized incipient bioherm reef | Producing | | 43813.6 | 52097.1 | 8283.5 | 0.0 | 0.0 | 0.0 |
| OTTER CREEK EAST | 1969 | 587 Guelph | Dolomitized incipient bioherm reef | Producing | | 11253.2 | 17101.6 | 5848.4 | 12.2 | 0.0 | -12.2 |
| PAYNE | 1949 | 660 Guelph | Dolomitized pinnacle reef | Gas stor. | | 272600.4 | 651278.2 | 378677.8 | 0.0 | 0.0 | 0.0 |
| PETROLIA EAST | 1972 | 605 Guelph | Dolomitized pinnacle reef | Producing | | 0.0 | 0.0 | 0.0 | 37082.2 | 56811.0 | 19728.8 |
| PLYMPTON 5-19-VI | 1979 | 727 Guelph | Dolomitized pinnacle reef | Producing | | 0.0 | 0.0 | 0.0 | 19272.3 | 28552.1 | 9279.8 |
| ROSEDALE | 1970 | 550 Guelph | Dolomitized pinnacle reef | Storage | | 80042.1 | 98808.1 | 18766.0 | 0.0 | 0.0 | 0.0 |
| SARNIA 1-8-A | 1980 | 745 Guelph Goat Island | Pinnacle reef | Suspended | | 308.7 | 123120.0 | 122811.3 | 0.0 | 0.0 | 0.0 |
| SARNIA 2-11-VIII | 1981 | 777 A1-Carb. Guelph | Dolomitized pinnacle reef | Suspended | | 0.0 | 50280.0 | 50280.0 | 0.0 | 0.0 | 0.0 |
| SARNIA 5-3-II | 1980 | 716 A1-Carb. Guelph | Dolomitized incipient bioherm reef | Suspended | | 0.0 | 13380.0 | 13380.0 | 0.0 | 0.0 | 0.0 |
| SECKERTON-SECKERTON NORTH | 1952 | 670 A1-Carb. Guelph | Dolomitized pinnacle reef | Oil prod. | | 244965.2 | 303600.0 | 58634.8 | 218353.4 | 236226.0 | 17872.6 |
| SHETLAND | 1914 | 485 A1-Carb. Guelph | Dolomitized incipient bioherm reef | Non-comm. | | 0.0 | 0.0 | 0.0 | 215.2 | 198.8 | -16.4 |
| SOMBRA | 1951 | 600 Guelph | Dolomitized pinnacle reef | Gas Stor. | | 54568.5 | 68029.0 | 13460.5 | 223.9 | 223.9 | 0.0 |
| SOMBRA 18-VII | 1970 | 596 Guelph | Dolomitized incipient bioherm reef | Producing | | 0.0 | 0.0 | 0.0 | 721.1 | 2799.0 | 2077.9 |
| SOMBRA 2-23-XII | 1978 | 610 A1-Carb. Guelph | Dolomitized pinnacle reef | Suspended | | 0.0 | 23038.0 | 23038.0 | 0.0 | 0.0 | 0.0 |
| SOMBRA 4-9-XII | 1974 | 629 A1-Carb. | A1 dolomitization associated with Bickford reef | Producing | | 2526.6 | 4687.3 | 2160.7 | 51.2 | 46.9 | -4.3 |
| SOMBRA 6-28-IX | 1973 | 590 A1-Carb. Guelph | Dolomitized incipient bioherm reef | Producing | | 0.0 | 0.0 | 0.0 | 584.0 | 1336.0 | 752.0 |
| SUTORVILLE | 1963 | 614 Guelph | Dolomitized incipient bioherm reef | Producing | | 0.0 | 0.0 | 0.0 | 9414.4 | 9517.0 | 102.6 |
| TALFORD | 1959 | 747 Guelph | Dolomitized bioherm patch reef | Abandoned | 1969 | 0.0 | 1969.0 | 1969.0 | 2316.3 | 2316.3 | 0.0 |
| TERMINUS | 1969 | 520 Guelph | Dolomitized pinnacle reef | Gas Stor. | | 239190.0 | 342836.2 | 103646.2 | 0.0 | 0.0 | 0.0 |
| TERMINUS NORTH | 1969 | 607 Guelph | Incipient reef | Abandoned | 1974 | 0.0 | 0.0 | 0.0 | 389.8 | 389.8 | 0.0 |
| WANSTEAD | 1958 | 610 Guelph | Dolomitized pinnacle reef | Producing | | 0.0 | 0.0 | 0.0 | 80218.9 | 81259.0 | 1040.1 |
| WARWICK | 1953 | 550 Guelph | Dolomitized pinnacle reef | Producing | | 0.0 | 0.0 | 0.0 | 108497.6 | 113137.0 | 4639.4 |
| WARWICK 6-17-IV SER | 1978 | 615 Guelph | Dolomitized incipient bioherm reef | Producing | | 0.0 | 0.0 | 0.0 | 1618.5 | 3021.0 | 1402.5 |
| WAUBUNO | 1951 | 590 Guelph | Dolomitized pinnacle reef | Gas Stor. | | 170351.5 | 262909.0 | 92557.5 | 316.9 | 316.9 | 0.0 |
| WILKESPORT | 1965 | 625 Guelph | Dolomitized pinnacle reef | Gas Stor. | | 237107.1 | 237107.1 | 0.0 | 567.3 | 567.3 | 0.0 |
| * Subsubtotal * | | | | | | 5499927.3 | | | 1365506.8 | | |
| * COUNTY Lincoln | | | | | | | | | | | |
| LINCOLN | 1912 | 175 Thorold, Grimsby | Porosity and permeability pinchouts in sandstone | Producing | | 25945.0 | 25497.0 | -448.0 | 0.0 | 0.0 | 0.0 |
| * Subsubtotal * | | | | | | 25945.0 | | | 0.0 | | |

## TABLE23. CUMULATIVE PRODUCTION, PROVEN RECOVERABLE RESERVES AND REMAINING RECOVERABLE RESERVES BY POOL OR FIELD (ONSHORE) 1983.

| POOL NAME | DISC DATE | AV PRODUCTION ZONE DEPTH | TRAP TYPE | STATUS | DATE ABAN | CUMUL GAS PROD THRU 1983 $10^3 m^3$ | PROVEN RECV'BLE GAS RESERVES $10^3 m^3$ | REMAING RECV'BLE GAS RESERVES $10^3 m^3$ | CUMUL OIL PROD THRU 1983 $m^3$ | PROVEN RECV'BLE OIL RESERVES $m^3$ | REMAING RECV'BLE OIL RESERVES $m^3$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| *** COUNTY Middlesex** | | | | | | | | | | | |
| CRUMLIN | 1915 | 282 Guelph | Dolomitized bioherm patch reef | Abandoned | 1931 | 436.2 | 436.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| MOSA | 1966 | 457 A1-Carb. | Dolomitized zone in anticline | Producing | | 0.0 | 0.0 | 0.0 | 4301.9 | 4918.0 | 616.1 |
| MOSALD | 1930 | 455 A1, A2-Carb. Grimsby | Dolomitized zones in anticline - porosity and permeability pinchout in sandstone | 77432.3 | | 77432.3 | 0.0 | 0.0 | 0.0 | 0.0 | |
| NEWBURY | 1930 | 565 Clint, Catar, A1Carb | Porosity and permeability pinchouts in sandstone and dolomitized carbonate zone in anticline | Abandoned | 1942 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WARDSVILLE | 1948 | 415 A2-Carb. | Dolomitized zone in anticline | Abandoned | 1973 | 43137.3 | 43137.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| *** Subsubtotal *** | | | | | | 121005.8 | | | 4301.9 | | |
| *** COUNTY Norfolk** | | | | | | | | | | | |
| CULTUS | 1931 | 424 Grimsby | Porosity and permeability pinchouts in sandstone | Abandoned | 1935 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HEMLOCK | 1972 | 437 Thorold, Grimsby | Porosity and permeability pinchout in sandstone | Producing | | 22801.5 | 27122.0 | 4320.5 | 0.0 | 0.0 | 0.0 |
| NORFOLK | 1900 | 350 Thorold, Grimsby | Porosity and permeability pinchouts in sandstone | Producing | | 1084632.6 | 1198993.0 | 114360.4 | 0.0 | 0.0 | 0.0 |
| TOWNSEND | 1967 | 235 Thorold, Grimsby, Irod. | Porosity and permeability pinchouts in sandstone | Suspended | 1977 | 1653.0 | 1653.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| VENISON CREEK | 1968 | 425 Thorold, Grimsby | Porosity and permeability pinchouts in sandstone | Producing | | 15037.5 | 53300.0 | 38262.5 | 0.0 | 0.0 | 0.0 |
| WILSONVILLE | 1967 | 246 Thorold | Porosity and permeability pinchouts in sandstone | Producing | | 3849.0 | 3849.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WILSONVILLE SOUTH | 1967 | 243 Thorold, Grimsby | Porosity and permeability pinchouts in sandstone | Producing | | 6059.0 | 7039.0 | 980.0 | 0.0 | 0.0 | 0.0 |
| *** Subsubtotal *** | | | | | | 1134032.6 | | | 0.0 | | |
| *** COUNTY Oxford** | | | | | | | | | | | |
| BROWNSVILLE | 1935 | 277 Guelph | Dolomitized bioherm patch reef | Suspended | | 112165.6 | 112165.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| NORWICH SOUTH | 1942 | 325 Thorold | Porosity and permeability pinchouts in sandstone | Producing | | 13706.0 | 13750.0 | 44.0 | 0.0 | 0.0 | 0.0 |
| VERSCHOYLE WEST | 1966 | 573 Guelph | Dolomitized bioherm patch reef | Abandoned | | 5989.2 | 5989.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| *** Subsubtotal *** | | | | | | 131860.8 | | | 0.0 | | |
| *** COUNTY Welland** | | | | | | | | | | | |
| WELLAND | 1891 | 250 Thorold, Grimsby, Whirl. | Porosity and permeability pinchouts in sandstone | Producing | | 1503023.6 | 1499089.0 | -3934.6 | 0.0 | 0.0 | 0.0 |
| *** Subsubtotal *** | | | | | | 1503023.6 | | | 0.0 | | |
| **** Subtotal **** | | | | | | 22011754.9 | | | 1697336.9 | | |
| **** GEOLOGICAL AGE Ordovician** | | | | | | | | | | | |
| *** COUNTY Bruce** | | | | | | | | | | | |
| HEPWORTH | <1900 | 428 Trenton, Black River | Thin dolomite zone of base of Trenton and top Black River | Abandoned | unkn | 708.2 | 708.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| *** Subsubtotal *** | | | | | | 708.2 | | | 0.0 | | |
| *** COUNTY Elgin** | | | | | | | | | | | |
| ALDBOROUGH 4-A-VIII | 1980 | 1183 Black River | Stratigraphic pinchout of porous dolomite | Producing | | 0.0 | 0.0 | 0.0 | 1015.4 | 3346.4 | 2331.0 |
| *** Subsubtotal *** | | | | | | 0.0 | | | 1015.4 | | |

## TABLE23. CUMULATIVE PRODUCTION, PROVEN RECOVERABLE RESERVES AND REMAINING RECOVERABLE RESERVES BY POOL OR FIELD (ONSHORE) 1983.

| POOL NAME | DISC DATE | AV PRODUCTION ZONE DEPTH | TRAP TYPE | STATUS | DATE ABAN | CUMUL GAS PROD THRU 1983 $10^3m^3$ | PROVEN RECV'BLE GAS RESERVES $10^3m^3$ | REMAING RECV'BLE GAS RESERVES $10^3m^3$ | CUMUL OIL PROD THRU 1983 $m^3$ | PROVEN RECV'BLE OIL RESERVES $m^3$ | REMAING RECV'BLE OIL RESERVES $m^3$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| *** COUNTY Essex** | | | | | | | | | | | |
| COLCHESTER | 1959 | 675 Trenton | Secondary dolomitization in a fault trap | Producing | | 0.0 | 0.0 | 0.0 | 106235.7 | 120000.0 | 13764.3 |
| GOSFIELD SOUTH | 1961 | 738 Trenton | Secondary dolomitization associated with possible faulting over the nose of an anticline | Producing | | 0.0 | 0.0 | 0.0 | 16722.3 | 19500.0 | 2777.7 |
| MALDEN | 1961 | 740 Trenton | Secondary dolomitization possibly associated with faulting of a syncline | Producing | | 0.0 | 0.0 | 0.0 | 22568.4 | 23500.0 | 931.6 |
| MALDEN 25 | 1960 | 808 Trenton | Secondary dolomitization possibly associated with faulting of a syncline | Abandoned | 1962 | 0.0 | 0.0 | 0.0 | 145.5 | 145.5 | 0.0 |
| MALDEN 3-41-IV | 1977 | 715 Trenton | Secondary dolomitization possibly associated with faulting of a syncline | Producing | | 0.0 | 0.0 | 0.0 | 1018.9 | 3752.5 | 2733.6 |
| MERSEA 1-15-B | 1983 | 775 Trenton | Secondary dolomitization associated with faulting | Suspended | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| RUSCOM RIVER | 1970 | 840 Trenton | Faulting associated secondary dolomite | Suspended | | 0.0 | 0.0 | 0.0 | 803.0 | 803.0 | 0.0 |
| *** Subsubtotal *** | | | | | | 0.0 | | | 147493.8 | | |
| *** COUNTY Gray** | | | | | | | | | | | |
| EGREMONT | 1966 | 666 Black River | Thin dolomite stringer in a limestone | Abandoned | 1971 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| *** Subsubtotal *** | | | | | | 0.0 | | | 0.0 | | |
| *** COUNTY Halton** | | | | | | | | | | | |
| ACTON | 1954 | 550 Trenton, Black River | Secondary dolomitization associated with faulting | Abandoned | 1974 | 14022.1 | 17400.0 | 3377.9 | 0.0 | 0.0 | 0.0 |
| HORNBY | 1959 | 480 Black River | Thin dolomite stringers along fractures | Abandoned | 1972 | 1074.5 | 2200.0 | 1125.5 | 0.0 | 0.0 | 0.0 |
| *** Subsubtotal *** | | | | | | 15096.6 | | | 0.0 | | |
| *** COUNTY Kent** | | | | | | | | | | | |
| DOVER | 1917 | 910 Trenton | Secondary dolomitization in a faulted syncline | Producing | | 364673.5 | 373300.0 | 8626.5 | 40427.3 | 42000.0 | 1572.7 |
| DOVER 7-10-VI | 1978 | 1071 Black River | Fracture zone | Producing | | 499.1 | 2838.2 | 2339.1 | 0.0 | 0.0 | 0.0 |
| DOVER 7-5-V E | 1983 | 1019 Black River | Secondary dolomitization associated with faulting | Producing | | 0.0 | 0.0 | 0.0 | 2953.3 | 0.0 | -2953.3 |
| STEVENSON | 1957 | 829 Trenton | Dolomitization of a dome | Abandoned | 1960 | 0.0 | 0.0 | 0.0 | 525.6 | 525.6 | 0.0 |
| *** Subsubtotal *** | | | | | | 365172.6 | | | 43906.2 | | |
| *** COUNTY Manitoulin** | | | | | | | | | | | |
| MANITOULIN ISLAND | 1860 | 140 Trenton | Thin very porous reefy lenses in a tight bituminous limestone | Abandoned | Unkn | 0.0 | 0.0 | 0.0 | 17.7 | 0.0 | -17.7 |
| *** Subsubtotal *** | | | | | | 0.0 | | | 17.7 | | |
| *** COUNTY Prince Edward** | | | | | | | | | | | |
| PICTON | 1937 | 110 Trenton | Not known, possibly porous dolomite beds in tight limestone | Abandoned | 1944 | 38.9 | 38.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| *** Subsubtotal *** | | | | | | 38.9 | | | 0.0 | | |
| *** COUNTY Wellington** | | | | | | | | | | | |
| ARTHUR | 1968 | 700 PC, Shadow L, Black R. | Sandstone in Shadow Lake and fractures in PC and Black River | Producing | | 20102.3 | 50200.0 | 30097.7 | 0.0 | 0.0 | 0.0 |
| *** Subsubtotal *** | | | | | | 20102.3 | | | 0.0 | | |

## TABLE23. CUMULATIVE PRODUCTION, PROVEN RECOVERABLE RESERVES AND REMAINING RECOVERABLE RESERVES BY POOL OR FIELD (ONSHORE) 1983.

| POOL NAME | DISC DATE | AV. PRODUCTION ZONE DEPTH | TRAP TYPE | STATUS | DATE ABAN | CUMUL GAS PROD THRU 1983 $10^3m^3$ | PROVEN RECV'BLE GAS RESERVES $10^3m^3$ | REMAING RECV'BLE GAS RESERVES $10^3m^3$ | CUMUL OIL PROD THRU 1983 $m^3$ | PROVEN RECV'BLE OIL RESERVES $m^3$ | REMAING RECV'BLE OIL RESERVES $m^3$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ** Subtotal ** | | | | | | 401118.6 | | | 192433.1 | | |
| **** GEOLOGICAL AGE Cambrian** | | | | | | | | | | | |
| * COUNTY Elgin | | | | | | | | | | | |
| DUNWICH 16-I | 1964 | 1099 Cambrian | Dolomitic sandstone in a fault block | Producing | | 0.0 | C.0 | 0.0 | 8166.6 | 13000.0 | 4833.4 |
| DUNWICH 18-I | 1972 | 1102 Cambrian | Dolomitic sandstone in a fault block | Producing | | 0.0 | 0.0 | 0.0 | 672.1 | 577.1 | -95.0 |
| DUNWICH 24-V N | 1975 | 1116 Cambrian | Dolomitic sandstone in a fault block | Abandoned | 1979 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DUNWICH 5-A-II | 1965 | 1099 Cambrian | Dolomitic sandstone in a fault block | Abandoned | 1974 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEW GLASGOW | 1959 | 1200 Cambrian | Porosity pinchout in a sandy dolomite | Abandoned | 1967 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WILLEY | 1964 | 1079 Cambrian | Sandy dolomite and dolomitized sandstone in a fault trap | Producing | | 36415.1 | 36415.1 | 0.0 | 225213.7 | 260000.0 | 34786.3 |
| * Subsubtotal * | | | | | | 36415.1 | | | 234052.4 | | |
| * COUNTY Kent | | | | | | | | | | | |
| CLEARVILLE | 1962 | 1188 Cambrian | Sandy dolomite in a fault block | Producing | | 4697.5 | 4697.5 | 0.0 | 210742.7 | 250000.0 | 39257.3 |
| ELECTRIC | 1948 | 1209 Cambrian | Dolomitic sandstone in a stratigraphic pinchout trap | Abandoned | | 2011.3 | 2011.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| ST PATRICKS | 1970 | 1132 Cambrian | Dolomite in a stratigraphic trap | Abandoned | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ZONE 5-III | 1925 | 1204 Cambrian | Dolomite sandstone in a stratigraphic pinchout trap | Producing | | 0.0 | 0.0 | 0.0 | 238.2 | 188.5 | -49.7 |
| * Subsubtotal * | | | | | | 6708.8 | | | 210980.9 | | |
| * COUNTY Middlesex | | | | | | | | | | | |
| EKFRID 10-V S | 1965 | 1082 Cambrian | Dolomitic sandstone in a fault block | Producing | | 0.0 | 0.0 | 0.0 | 2299.3 | 2500.0 | 200.7 |
| EKFRID 8-V S | 1966 | 1091 Cambrian | Dolomitic sandstone in a fault block | Producing | | 0.0 | 0.0 | 0.0 | 4333.0 | 5000.0 | 667.0 |
| GLANWORTH | 1964 | 1079 Cambrian | Dolomitic sandstone in a stratigraphic pinchout trap | Abandoned | 1975 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WILLEY NORTH | 1973 | 1085 Cambrian | Dolomitized sandstone in fault blocks | Producing | | 2320.0 | 2320.0 | 0.0 | 7204.1 | 8400.0 | 1195.9 |
| * Subsubtotal * | | | | | | 2320.0 | | | 13836.4 | | |
| * COUNTY Oxford | | | | | | | | | | | |
| GOBLES | 1959 | 891 Cambrian | Stratigraphic pinchout of dolomitized sandstone | Producing | | 25664.3 | 31000.0 | 5335.7 | 238721.6 | 250000.0 | 11278.4 |
| INNERKIP | 1961 | 873 Cambrian | Stratigraphic pinchout of dolomitized sandstone | Producing | | 64267.9 | 364000.0 | 299732.1 | 3310.4 | 2861.6 | -448.8 |
| INNERKIP EAST | 1968 | 868 Cambrian | Stratigraphic pinchout of dolomitized sandstone | Producing | | 6270.4 | 29200.0 | 22929.6 | 16.5 | 0.0 | -16.5 |
| VERSCHOYLE | 1963 | 1015 Cambrian | Dolomite sandstone in a stratigraphic pinchout trap | Abandoned | 1964 | 0.0 | 0.0 | 0.0 | 209.2 | 209.2 | 0.0 |
| * Subsubtotal * | | | | | | 96202.6 | | | 242257.7 | | |
| * COUNTY Wentworth | | | | | | | | | | | |
| ROCKTON | 1960 | 719 Cambrian | Pinchout of dolomitic sandstone | Abandoned | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| * Subsubtotal * | | | | | | 0.0 | | | 0.0 | | |
| ** Subtotal ** | | | | | | 141646.5 | | | 701127.4 | | |
| *** Total *** | | | | | | 22555365.7 | | | 9034015.3 | | |

# VIII. Natural Gas Storage

Fifteen of the eighteen designated gas storage pools were in operation in 1983. Total gas storage working capacity when delta pressured in 1983 was 4749 $106m^3$.

Lambton County remained the centre for gas storage operations, with all but one of the active pools contained within its boundaries (Table 24).

TABLE 24. 1983 GAS STORAGE SUMMARY REPORT.

| Reservoir | Zone[1] | Status | Operator | Working Capacity At Original Reservoir Pressure $10^6m^3$ | Original Reservoir Pressure kPa | Working Capacity When Delta Pressured $10^6m^3$ | Reservoir Pressure When Delta Pressured kPa |
|---|---|---|---|---|---|---|---|
| Bentpath | G, A1 | Active | Union | 103.1 | 5981 | 131.2 | 6916 |
| Bickford | G, A1 | Active | Union | 373.0 | 6398 | 500.9 | 7612 |
| Corunna | G, A1 | Active | Tecumseh | 99.1 | 6502 | 138.8 | 7964 |
| Crowland | Whirlpool | Active | Cons. | 11.3 | 3447 | 14.2 | 4330 |
| Dawn 156 | G, A1 | Active | Union | 515.8 | 6047 | 619.9 | 6757 |
| Dawn 167 | G, A1 | Active | Union | 98.6 | 6247 | 110.6 | 6592 |
| Dawn 47-49 | G, A1 | Active | Union | 92.9 | 5964 | 114.4 | 6757 |
| Dawn 59-85 | G, A1,A2 | Active | Union | 121.1 | 5964 | 159.3 | 6757 |
| Ennskillen 28 | G | Inactive | Union | 47.7 | 5288 | 115.6 | 7819 |
| Kimball-Colin. | G, A1 | Active | Tecumseh | 841.3 | 6336 | 1019.8 | 7964 |
| Payne | G, A1 | Active | Union | 351.2 | 6047 | 593.8 | 8219 |
| Rosedale | G, A1 | Active | Union | 67.1 | 6460 | 75.6 | 6957 |
| Seckerton | G, A1 | Active | Tecumseh | 255.0 | 6481 | 320.1 | 7964 |
| Sombra | G, A1 | Inactive | Union | 47.8 | 6467 | 71.2 | 7612 |
| Terminus | G, A1 | Active | Union | 208.5 | 6109 | 247.2 | 6757 |
| Waubuno | G, A1 | Active | Union | 163.8 | 6419 | 177.7 | 6757 |
| Wilkesport | G, A1 | Active | Tecumseh | 165.4 | 6378 | 192.6 | 7929 |
| Zone | A1, A2 | Inactive | Union | 101.9 | 4971 | 146.1 | 7129 |

1. G = Guelph, A1 = A1 Carbonate, A2 = A2 Carbonate

# IX. Salt Cavern Storage

Table 25 provides a summary of salt cavern storage operations in southwestern Ontario. Statistics were compiled from a survey of the companies involved by the Petroleum Resources Section.

**TABLE 25: SALT CAVERN STORAGE.**

| Company Name | Cavern Number | Capacity (m3) | Contents |
|---|---|---|---|
| Dome Petroleum Ltd. Sarnia | RP-1 | 19 237 | NGL mix |
| | RP-2 | 20 350 | NGL mix |
| | RP-3 | 28 618 | NGL mix |
| | RP-4 | 58 825 | NGL mix |
| | RP-5 | 32 751 | NGL mix |
| | RP-6 | 50 240 | NGL mix |
| | RP-7 | 63 595 | NGL mix |
| | P-1 | 42 132 | Spec LPG |
| | P-2 | 47 696 | Spec LPG |
| | P-3 | 52 466 | Spec LPG |
| | P-4 | 51 670 | Spec LPG |
| | P-5 | 49 286 | Spec LPG |
| | P-6 | 49 922 | Spec LPG |
| | P-7 | 48 491 | Spec LPG |
| | P-8 | 36 408 | Spec LPG |
| | B-1 | 68 683 | Spec LPG |
| | B-2 | 21 781 | Spec LPG |
| | B-3 | 62 959 | Spec LPG |
| | B-4 | 35 772 | Spec LPG |
| Dow Chemical Canada | 7 | 21 900 | |
| | 8 | 28 400 | |
| | 11 | 15 400 | |
| | 12 | 22 500 | |
| | HC-1 | 42 340 | Ethylene |
| | HC-2 | 9 197 | Oil |
| | HC-3 | 58 673 | Ethylene |
| | HC-4 | 44 243 | Ethylene |
| | HC-5 | 36 155 | Ethylene |
| | HC-6 | 31 239 | Ethylene |
| | HC-7 | 27 275 | Brine |
| | HC-8 | 19 188 | Propylene |
| | HC-9 | 1 110 | Brine |
| | HC-10 | 1 427 | Brine |
| | HC-11 | 16 | Brine |
| | HC-12 | 32 | Brine |
| | 41-42 | 396 438 | Brine |
| | 43-44 | 317 150 | Brine |
| | 45-46 | 158 575 | Brine |
| | 47-48 | 555 013 | Brine |
| | 49-50 | 81 032 | Ethylene |
| | 51-52 | 98 792 | Ethylene |
| | 53-54 | 269 578 | Brine |
| | 55 | 30 605 | Brine |
| | 56 | 68 187 | Butane |

CONTINUED

TABLE 25: CONTINUED.

| Company Name | Cavern Number | Capacity (m3) | Contents |
|---|---|---|---|
| Dow Chemical Canada | 57-58 | 199 805 | Brine |
| | 59-60 | 412 296 | Propane |
| | 61 | 34 094 | Brine |
| | 62 | 36 472 | Brine |
| | 63-64 | 3 172 | Brine |
| | 65-66 | 12 686 | Brine |
| | 67-68 | 15 858 | Brine |
| | 69 | 3 172 | Brine |
| | 70 | 5 550 | Brine |
| | 71-72 | 5 550 | Brine |
| | 75 | Brine | |
| | 76 | Brine | |
| | 81 | Brine | |
| | 82 | 1 427 | Brine |
| Imperial Oil Ltd. | C-982 | 39 747 | Propane |
| -Esso Petroleum | C-981 | 28 618 | Slop |
| -Esso Chemical | C-985 | 20 668 | Butane |
| | C-4040 | 33 387 | Empty |
| | C-4043 | 41 337 | n-Butane |
| | C-4044 | 34 977 | Propane |
| | C-983 | 31 797 | Fuel gas |
| | C-4041 | 21 463 | Propylene |
| | C-4042 | 38 316 | Ethylene |
| Petrosar | 1 | 39 680 | Ethylene |
| | 2 | 42 320 | Ethylene |
| | 3 | 17 460 | Fuel gas |
| | 4 | 32 960 | Propylene |
| | 5 | 13 490 | Propane |
| Polysar Ltd. | 1 | 31 000 | Propane |
| | 2 | 17 000 | Propane |
| | 3 | 17 200 | Propane |
| | 4 | 16 700 | Propane |
| | 5 | 21 400 | Isobutylene |
| | 7 | 12 600 | Propane |
| Shell Canada Ltd. | W1 | 33 390 | Butane |
| | W2 | 19 080 | Iso-Butane |
| | W3 | 15 900 | Propane/ Propylene |
| | W4 | 8 750 | Propylene |
| Sun Oil Ltd. | 3 | 22 894 | Pentanes |
| | 4 | 18 919 | Propane |
| | 5 | 25 438 | Butane |
| | 7 | 8 585 | Butane/Butylene |
| | 8 | 16 852 | Butane |
| | 9 | 36 090 | Inactive |
| | 10 | 16 217 | Empty |
| | 13 | 14 547 | LPG |
| | 14 | 16 025 | Iso-Butane |

# X. References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Bailey Geological Services Ltd. and R.O. Cochrane, 1986, Evaluation of the conventional and potential oil and gas reserves of the Silurian sandstone reservoirs of Ontario: Ontario Geological Survey Open File Report 5578, 275p.

Weatherson, G.L., 1984, 1983 Ontario Mineral Score, Ontario Ministry of Natural Resources, Video Census Series No.3, 242p.

# Appendix I. Licences Issued in 1983

TABLE I-1: PERSONS LICENCED TO LEASE OIL OR GAS RIGHTS, 1983.

| Licencee | City | Province/ State |
|---|---|---|
| 3983ll Ontario Ltd. | Corunna | Ontario |
| A.I.S. Resources Ltd. | Montreal | Quebec |
| Ameracrude International Inc. | Toronto | Ontario |
| Annett, Robert | Bothwell | Ontario |
| Atlas Oil & Gas Limited | Scarborough | Ontario |
| Ayrheart, Ellwood J. | Oil Springs | Ontario |
| Ayrheart, Orval & Irene | Petrolia | Ontario |
| Ayrheart, Roy | Petrolia | Ontario |
| Bailey Geological Services Ltd. | St. Mary's | Ontario |
| Barnes, Lonnie | Bothwell | Ontario |
| Bayview Expolorations Ltd. | St. Williams | Ontario |
| Bear Creek Resources Ltd. | Toronto | Ontario |
| Bedford Petroleums Ltd. | Calgary | Alberta |
| Bender, Harold E. | Strathroy | Ontario |
| Blackwell Petroleum Services Ltd. | London | Ontario |
| Bluewater Oil & Gas Ltd. | Calgary | Alberta |
| Bowman Development Ltd. | Calgary | Alberta |
| Bradley, Murray | Petrolia | Ontario |
| Brand, Walt | Petrolia | Ontario |
| Brett, Harold | Lambeth | Ontario |
| Brookwood Oils Inc. | Tillsonburg | Ontario |
| Byers, I. | Oil Springs | Ontario |
| Camel Oil & Gas Ltd. | London | Ontario |
| Cameron Petroleums Ltd. | Lambeth | Ontario |
| Canadacrude Limited | Toronto | Ontario |
| Canada-Cities Service Ltd. | Calgary | Alberta |
| Cartier Resources Inc. | Toronto | Ontario |
| Colonial Petroleums Ltd. | Chatham | Ontario |
| Comfort, N.E. | Chatham | Ontario |
| Consolidated West Petroleum | Dunnville | Ontario |
| Consumers' Gas | Willowdale | Ontario |
| Corden, Bruce P. Eng. | St. Clair | Michigan |
| Craven Oil Company Limited | Chatham | Ontario |
| Crich Holdings & Buildings Ltd. | London | Ontario |
| Dawn Petroleums | Brigden | Ontario |
| Dean Construction Co. Ltd. | Tecumseh | Ontario |
| Den-Mar Brines Ltd. | Bothwell | Ontario |
| Dome Petroleums Ltd. | Sarnia | Ontario |
| Dow Chemical Canada Inc. | Sarnia | Ontario |
| D.W. Matheson Electric Ltd. | Oil Springs | Ontario |
| Dutton Resources Ltd. | Toronto | Ontario |
| Edward, R.A. | Petrolia | Ontario |
| E.P. Rowe Oil Ltd. | London | Ontario |
| Esso Resources Canada Ltd. | Blenheim | Ontario |
| Explorer Petroleum Corp. | Calgary | Alberta |
| Fairbank (Charles) Oil Prop. | Petrolia | Ontario |
| Farrants, Robert H. | Thamesville | Ontario |
| Fisherville Gas Ltd. | Simcoe | Ontario |
| Fitzgerald, Norman D. | Abilene | Texas |
| Forbes Resources Inc. | Tillsonburg | Ontario |
| Fox, E.S. | Welland | Ontario |
| Francisco Petroleum Enterprises Ltd. | Chatham | Ontario |
| Freeman, Donald G. | Port Rowan | Ontario |

TABLE I-1: CONTINUED.

| Licencee | City | Province/ State |
|---|---|---|
| Gaiswinkler Enterprises Ltd. | Chatham | Ontario |
| Glenfred Gas Wells Ltd. | Jarvis | Ontario |
| Haldimand Oil & Gas Wells Ltd. | Cayuga | Ontario |
| J.W.K. Administration . & Associates Ltd. | Brantford | Ontario |
| JMCD Energy Exploration Ltd. | Brantford | Ontario |
| Jourika Gas | Tillsonburg | Ontario |
| K.E. Crawford Limited | Chatham | Ontario |
| Kenartha Oil & Gas Co. Ltd. | Markham | Ontario |
| Kingdon, Ron | Thedford | Ontario |
| Klenk, William C. III | Grosse Pointe | Michigan |
| Kodyen, L.M. | Sarnia | Ontario |
| Lambton Area Industries | Petrolia | Ontario |
| Lang Petroleum Limited | Sarnia | Ontario |
| Lincoln Natural Gas Ltd. | Dunnville | Ontario |
| LMG Oils Limited | Tillsonburg | Ontario |
| Marr, Harvey | Wainfleet | Ontario |
| Marsh, Thomas Leroy | Bothwell | Ontario |
| Metalore Resources Ltd. | Simcoe | Ontario |
| Michigan Oil Co. | Jackson | Michigan |
| Milton Resources Ltd. | London | Ontario |
| Mitchell Energy Corporation | Port Dover | Ontario |
| Mitchell, G. | Oil Springs | Ontario |
| Morningstar Oil Producers | Oil Springs | Ontario |
| Morningstar, Lorna | Oil Springs | Ontario |
| Morrison, Doris | Langton | Ontario |
| Morrison, Robert J. | Langton | Ontario |
| Mothersbough, Albert B. Donald & H. | Oil Springs | Ontario |
| Murphy Oil Co. Ltd. | Calgary | Alberta |
| Mymryk, W. | Stevensville | Ontario |
| Nith River Petroleums Ltd. | Cambridge | Ontario |
| Onshore Petroleums Ltd. | Islington | Ontario |
| Orion Enterprises | Toronto | Ontario |
| Ort, C.H. | Niagara Falls | Ontario |
| P & E Oil Recyclers | Petrolia | Ontario |
| Patterson Oil Development | Erieau | Ontario |
| Pegg, Leonard A. | Morpeth | Ontario |
| Pembina Exploration Co. Ltd. | Dunnville | Ontario |
| Petroleum Royalties Limited | Calgary | Alberta |
| Petrolia Discovery Foundation Inc. | Petrolia | Ontario |
| Place Gas & Oil Co. Ltd. | Toronto | Ontario |
| Pope, William | Bothwell | Ontario |
| Putman, Patricia S. | Sarnia | Ontario |
| Ram Petroleums Ltd. | Toronto | Ontario |
| Rayrock Resources | Chatham | Ontario |
| Realoil Enterprises Ltd. | Chatham | Ontario |
| Riddell Hanna Exploration Ltd. | Dearborn Hts. | Michigan |
| R.J. Bryant Energy Associates Inc. | London | Ontario |
| Roskoil Co. | Oil Springs | Ontario |
| Ruch, K. | Stevensville | Ontario |

TABLE I-1: CONTINUED.

| Licencee | City | Province/ State |
|---|---|---|
| Sasko Oil and Gas Ltd. | Dutton | Ontario |
| Schmidt, George | Mount Hope | Ontario |
| Shain, Bob, Gare & Ian | Petrolia | Ontario |
| Shawnee Petroleums Ltd. | Toronto | Ontario |
| Simon, B | Stevensville | Ontario |
| Sitler, Delbert | Wardsville | Ontario |
| Smit, Jack R. | Inwood | Ontario |
| South-West Petroleum Co. | Windsor | Ontario |
| Springhill Resources Limited | Lambeth | Ontario |
| Starlite Gas Co. Ltd. | Lakeview | New York |
| Stevenson, Charles G. | Dresden | Ontario |
| Stevenson, Dorothy | Petrolia | Ontario |
| Suburn Petroleums Ltd. | North Bay | Ontario |
| Sunburst Oil Co. | Lambeth | Ontario |
| Symington, Wayne | Watford | Ontario |
| Talcorp Services Ltd. | Toronto | Ontario |
| Thames Resources Ltd. | Toronto | Ontario |
| Tunks, Rev. G. P. | Weston | Ontario |
| Union Gas Limited | Chatham | Ontario |
| Universal Exploration Ltd. | Calgary | Alberta |
| Venison Creek Resources Ltd. | Calgary | Alberta |
| Vye, Frank | Brigden | Ontario |
| Wellandport Gas Co. | Dunnville | Ontario |
| W.E. Stewart Holdings Ltd. | Toronto | Ontario |
| Woods, Lloyd | Oil Springs | Ontario |
| York Producing Co. Ltd. | Bolivar | New York |
| Yuez Gas Co. | Buffalo | New York |
| Zdriluk, A.M. | Waterford | Ontario |

**TABLE I-2: PERSONS LICENCED TO CONDUCT GEOPHYSICAL OR GEOCHEMICAL EXPLORATION FOR OIL OR GAS, 1983**

| Licencee | City | Province/ State |
|---|---|---|
| Barringer Research Ltd. | Rexdale | Ontario |
| Bedford Petroleums Ltd. | Calgary | Alberta |
| Bowman Development Ltd. | Calgary | Alberta |
| Camel Oil & Gas Ltd. | London | Ontario |
| Canada-Cities Services Ltd. | Calgary | Alberta |
| Canadian Superior Oil Ltd. | Calgary | Alberta |
| Cangeo Ltd. | Oil Springs | Ontario |
| Cochrane, Robert O. | London | Ontario |
| Consolidated West Petroleum | Dunnville | Ontario |
| Consumer's Gas Co. Ltd. | Scarborough | Ontario |
| Dome Petroleum Ltd. | Calgary | Alberta |
| Elexco Ltd. | London | Ontario |
| Explorer Petroleum Corporation | Calgary | Alberta |
| Fitzgerald, Norman D. | Abilene | Texas |
| Gravimetrics Inc. | Tulsa | Oklahoma |
| Indian & Northern Affairs | Toronto | Ontario |
| JMCD Energy Exploration Ltd. | Brantford | Ontario |
| Klenk, William C. III | Grosse Pointe | Michigan |
| Mid Eastern Oil & Gas Ltd. | London | Ontario |
| Milton Resources Ltd. | London | Ontario |
| Mitchell Energy Corporation | Port Dover | Ontario |
| Pembina Exploration Co. Ltd. | Dunnville | Ontario |
| Pounder Harmon & Hill Inc. | London | Ontario |
| Rowe, E.P. Oil Ltd. | London | Ontario |
| Seis-Ex Geophysical Ltd. | Calgary | Alberta |
| Shell Canada Resources Ltd. | Calgary | Alberta |
| Spelman Prentice | Casper | Wyoming |
| Union Gas Limited | Chatham | Ontario |

**TABLE I-3: OWNERS OF LICENCED MACHINES FOR BORING, DRILLING OR PLUGGING WELLS, 1983.**

| NAME | CITY | PROVINCE/ STATE |
|---|---|---|
| AFCO Construction | Fort Erie | Ontario |
| Ashburn, Harvey W. | Dresden | Ontario |
| Bear Creek Resources Ltd. | Toronto | Ontario |
| Bothwell Drilling & Servicing | Bothwell | Ontario |
| Canadian Mine Ent. Ltd. | Brampton | Ontario |
| Casselman, Ramon H. | Williamsburg | Ontario |
| Charles Shaw Drilling Ltd. | Florence | Ontario |
| Corunna Petroleum Ltd. | Corunna | Ontario |
| D.S.I.L. Drilling Inc. | /Scarborough | Ontario |
| Davidson Well Drilling Ltd. | Wingham | Ontario |
| Degrow, Leland M. | York | Ontario |
| Elfner Drilling | Nanticoke | Ontario |
| English, J.E. | Lambeth | Ontario |
| Faulkner Well Drilling | Peterborough | Ontario |
| Geocon Inc. | Toronto | Ontario |
| Hopper Durl Ltd. | Seaforth | Ontario |
| International Water Supply Ltd. | Barrie | Ontario |
| James Newport Drilling Limited | Oil Springs | Ontario |
| Kingdon, Ron | Thedford | Ontario |
| Lambton Area Industries Ltd. | Petrolia | Ontario |
| Longyear Canada Inc. | North Bay | Ontario |
| Longyear Canada Inc. | Concord | Ontario |
| Mitchell, Elgin & Sons | Simcoe | Ontario |
| Montgomery Bros. | Selkirk | Ontario |
| Murray Rose Drilling Inc. | Port Rowan | Ontario |
| Newport, Lorne | Wardsville | Ontario |
| Northern Well Drilling Ltd. | Unionville | Ontario |
| Pembina Exploration Co. Ltd. | Dunnville | Ontario |
| Place Gas & Oil Co. Ltd. | Toronto | Ontario |
| Rawlings Drilling Co. Ltd. | Chatham | Ontario |
| Ron Smith Well Drilling | Denfield | Ontario |
| Rose, Charles | Port Rowan | Ontario |
| Site Investigation Services Ltd. | Peterborough | Ontario |
| S.J. Atkinson & Son Drilling | Petrolia | Ontario |
| Stevenson, Charles G. | Dresden | Ontario |
| Underwater Gas Developers Ltd. | Port Colborne | Ontario |
| Unicor Drilling Ltd. | Calgary | Alberta |
| Union Gas Limited | Chatham | Ontario |
| W.G. Water Wells Ltd. | Dresden | Ontario |
| Wellington Newport & Sons Ltd. | Wardsville | Ontario |

**TABLE I-4: PERSONS LICENCED TO PRODUCE OIL AND GAS, 1983.**

| NAME | CITY | PROVINCE/ STATE |
|---|---|---|
| 398311 Ontario Ltd. | Corunna | Ontario |
| 490900 Ontario Ltd. | Thedford | Ontario |
| A.I.S. Resources Limited | Montreal | Quebec |
| Ameracrude International Inc. | Toronto | Ontario |
| Annett, R. | Bothwell | Ontario |
| Atlas Oil and Gas Limited | Scarborough | Ontario |
| Ayrheart, E.J. | Oil Springs | Ontario |
| Ayrheart, O. and I. | Petrolia | Ontario |
| Ayrheart, R. | Petrolia | Ontario |
| Bailey Geological Services Ltd. | St. Marys | Ontario |
| Barnes, L. | Bothwell | Ontario |
| Bayview Explorations Ltd. | Port Rowan | Ontario |
| Bear Creek Resources Ltd. | Toronto | Ontario |
| Bedford Petroleums Ltd. | Calgary | Alberta |
| Bender, H.E. | Strathroy | Ontario |
| Blackwell Petroleum Services Limited | London | Ontario |
| Bluewater Oil and Gas Ltd. | Calgary | Alberta |
| Bowman Development Ltd. | Calgary | Alberta |
| Bradley, M. | Petrolia | Ontario |
| Brand, W. | Petrolia | Ontario |
| Brett, H.B. | Lambeth | Ontario |
| Brookwood Oils Inc. | Tillsonburg | Ontario |
| Byers, I. | Oil Springs | Ontario |
| Camel Oil and Gas Ltd. | Calgary | Alberta |
| Cameron Petroleums Ltd. | Lambeth | Ontario |
| Canacrude Limited | Toronto | Ontario |
| Canada-Cities Service Ltd. | Calgary | Alberta |
| Cartier Resources Inc. | Toronto | Ontario |
| Charles Fairbank Oil Properties | Petrolia | Ontario |
| Charles G. Stevenson Drilling | Dresden | Ontario |
| Colonial Petroleums Ltd. | Chatham | Ontario |
| Comfort, N.E. | Chatham | Ontario |
| Consolidated West Petroleum | Dunnville | Ontario |
| Corden, B. | St. Clair | Michigan |
| Craven Oil Company Limited | Chatham | Ontario |
| Crich Holdings and Buildings Ltd. | London | Ontario |
| Dawn Petroleums | Brigden | Ontario |
| Dean Construction Co. Ltd. | Tecumseh | Ontario |
| Den-Mar Brines Ltd. | Bothwell | Ontario |
| Dome Petroleum Ltd. | Sarnia | Ontario |
| Donald, A.B. and H. Mothersbough | Oil Springs | Ontario |
| Dow Chemical Canada Inc. | Sarnia | Ontario |
| D.W. Matheson Electric Ltd. | Oil Springs | Ontario |
| Dutton Resources Ltd. | Toronto | Ontario |
| Edward, R.A. | Petrolia | Ontario |
| E.P. Rowe Oil Ltd. | London | Ontario |
| Esso Resources Canada Ltd. | Blenheim | Ontario |
| Explorer Petroleum Corp. | Calgary | Alberta |
| Fairfield Oil and Gas Co. | Sarnia | Ontario |
| Farrants, R.A. | Thamesville | Ontario |
| Fisherville Gas Ltd. | Simcoe | Ontario |
| Fitzgerald, N.D. | Abilene | Texas |
| Forbes Resources Inc. | Tillsonburg | Ontario |
| Fox, E.S. | Welland | Ontario |
| Francisco Petroleum Enterprises Ltd. | Chatham | Ontario |
| Freeman | Port Rowan | Ontario |

TABLE I-4: CONTINUED.

| NAME | CITY | PROVINCE/ STATE |
|---|---|---|
| Gaiswinkler Enterprises Ltd. | Chatham | Ontario |
| George Hyslop Ltd. | Ohsweken | Ontario |
| Glenfred Gas Wells Ltd. | Jarvis | Ontario |
| Haldimand Gas and Oil Wells Ltd. | Cayuga | Ontario |
| Hemlock Explorations Ltd. | Langton | Ontario |
| Houghton Explorations | Langton | Ontario |
| JMCD Energy Exploration Ltd. | Brantford | Ontario |
| Jourika Gas | Eden | Ontario |
| J.W.K. Administration & Associates Ltd. | Brantford | Ontario |
| K.E. Crawford Ltd. | Chatham | Ontario |
| Kenartha Oil and Gas Co. Ltd. | Markham | Ontario |
| Klenk III, W.C. | Grosse Pointe | Michigan |
| Lambton Area Industries | Petrolia | Ontario |
| Lang Petroleum Limited | Sarnia | Ontario |
| Lincoln Natural Gas Ltd. | Dunnville | Ontario |
| LMG Oils Limited | Tillsonburg | Ontario |
| Marr, H. | Wainfleet | Ontario |
| Marsh, T.L. | Bothwell | Ontario |
| Metalore Resources Ltd. | Simcoe | Ontario |
| Michigan Oil Co. | Jackson | Michigan |
| Milton Resources Ltd. | London | Ontario |
| Mitchell Energy Corporation | Port Dover | Ontario |
| Michell, G. | Oil Springs | Ontario |
| Morningstar, L. | Oil Springs | Ontario |
| Morningstar Oil Producers | Oil Springs | Ontario |
| Morrison, D. | Langton | Ontario |
| Morrison, R.J. | Langton | Ontario |
| Murphy Oil Co. Ltd. | Calgary | Alberta |
| Nith River Petroleums Ltd. | Cambridge | Ontario |
| Onshore Petroleums Ltd. | Islington | Ontario |
| Orion Enterprises | Toronto | Ontario |
| Ovt, C.H. | Niagara Falls | Ontario |
| Patterson Oil Development | Erieau | Ontario |
| Pegg, L.A. | Morpeth | Ontario |
| Pembina Exploration Co. Ltd. | Dunnville | Ontario |
| Petroleum Royalties Limited | Calgary | Alberta |
| Petrolia Discovery Foundation Inc. | Petrolia | Ontario |
| Petrolia and Enniskillen Liquid Disposal and Recyclers Comp. Ltd. | Petrolia | Ontario |
| Place Gas and Oil Co. Ltd. | Toronto | Ontario |
| Pope, W. | Bothwell | Ontario |
| Putman, P.S. | Sarnia | Ontario |
| Ram Petroleums Ltd. | Toronto | Ontario |
| Rayrock Resources | Chatham | Ontario |
| Realoil Enterprises Ltd. | Chatham | Ontario |
| R.G. Bryant Energy Associates Inc. | London | Ontario |
| Riddel Hanna Exploration Ltd. | Dearborn Heights | Michigan |
| Roskoil Co. | Oil Springs | Ontario |
| Ruch, K. | Stevensville | Ontario |

TABLE I-4: CONTINUED.

| NAME | CITY | PROVINCE/ STATE |
|---|---|---|
| Sasko Oil and Gas Ltd. | Dutton | Ontario |
| Schmidt, G. | Mount Hope | Ontario |
| Shain, B. and I. Gore | Petrolia | Ontario |
| Shawnee Petroleums Ltd. | Toronto | Ontario |
| Simon, B. | Stevensville | Ontario |
| Sitler, D. | Wardsville | Ontario |
| Smit, J.R. | Inwood | Ontario |
| South-West Petroleum Co. | Windsor | Ontario |
| Springhill Resources Limited | Lambeth | Ontario |
| Starlite Gas Co. Ltd. | Lakeview | New York |
| Stevenson, D | Petrolia | Ontario |
| Suburn Petroleums Ltd. | North Bay | Ontario |
| Sunburst Oil Co. | Lambeth | Ontario |
| S and W Oil Company | Watford | Ontario |
| Talcorp Services Ltd. | Toronto | Ontario |
| Thames Resources Ltd. | Toronto | Ontario |
| The Consumers' Gas Company Ltd. | Willowdale | Ontario |
| Tanks, G.P. | Weston | Ontario |
| Union Gas Ltd. | Chatham | Ontario |
| Universal Explorations Ltd. | Calgary | Alberta |
| Venison Greek Resources Ltd. | Calgary | Alberta |
| Vye, F. | Brigden | Ontario |
| Wellandport Gas Co. | Dunnville | Ontario |
| W.E. Stewart Holdings Ltd. | Toronto | Ontario |
| Willoyd Ltd. | Stevensville | Ontario |
| Woods, L. | Oil Springs | Ontario |
| York Producing Co. Ltd. | Bolivar | New York |
| Yuez Gas Co. | Buffalo | New York |
| Zdriluk, A.M. | Waterford | Ontario |

# Appendix II. Composite Stratigraphic Column

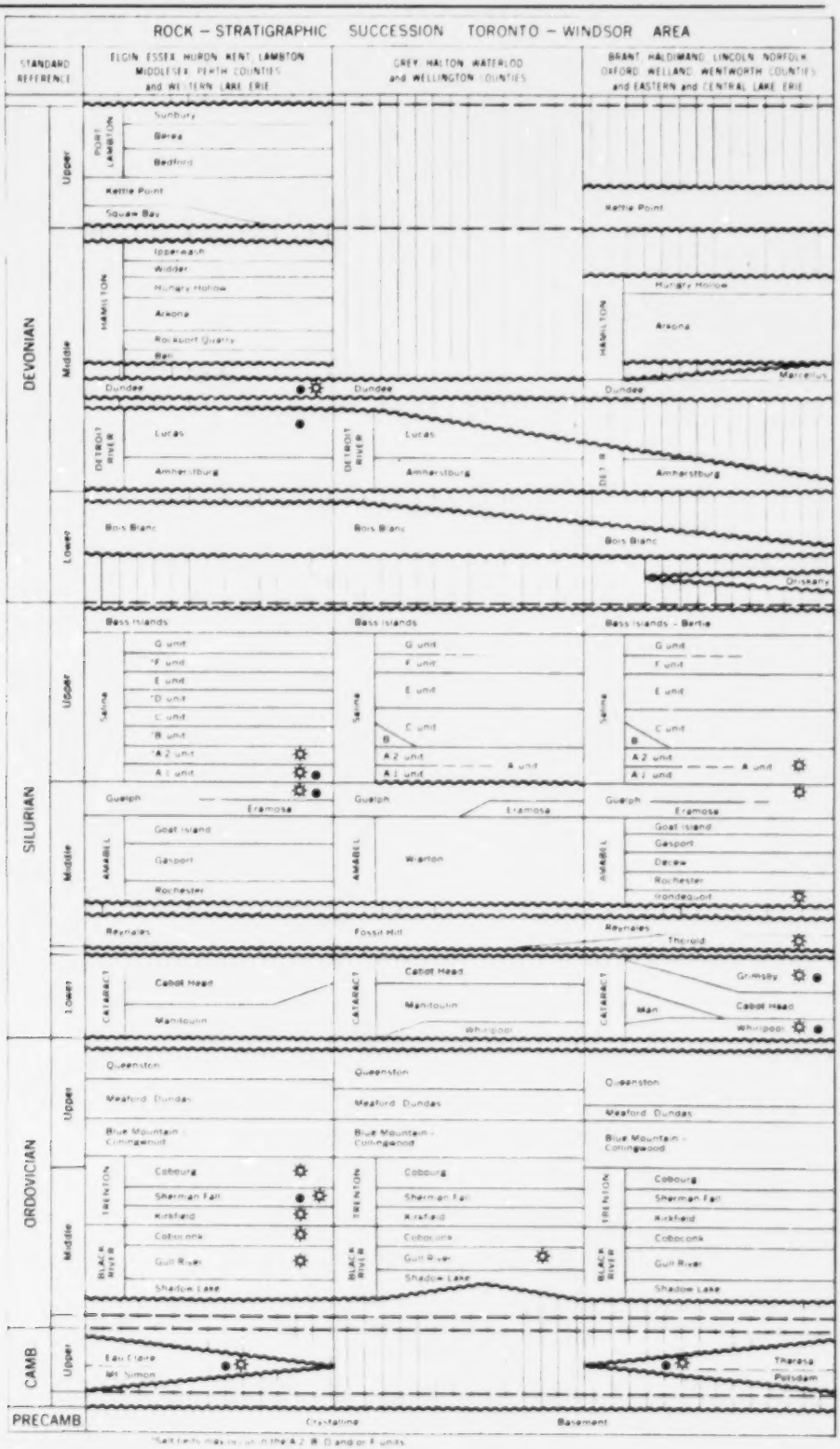



*Figure 25. Composite stratigraphic column, southwestern Ontario.*

# Appendix III.
# List of Publications and Maps

## PUBLICATIONS AND MAPS

The following publications and maps are available through the Public Information Centre, Whitney Block, Queens Park, Toronto. Orders should be accompanied by cheque or money order, payable to the Treasurer of Ontario.

### Annual Reports

| | Price |
|---|---|
| Annual Report, 1954, Ontario Fuel Board | $ 1.00 |
| Annual Reports, 1960, 1966, 1967, 1969, 1970 | 1.00 |
| Annual Reports, 1971, 1972, 1973, 1974 | 5.00 |
| Oil and Gas Paper 1, 1978 | 10.00 |
| Oil and Gas Papers 2-5, 1979-1982 | 20.00 |

### Ontario Geological Survey - Open File Reports

OFR 5498 Evaluation of the Conventional and Potential Oil and Gas Reserves of the Ordovician of Ontario; by Bailey Geological Services Ltd. and Robert O. Cochrane, 1984, 77p., 8 appendices, 35 figures

OFR 5499 Evaluation of the Conventional and Potential Oil and Gas Reserves of the Cambrian of Ontario; by Bailey Geological Services Ltd. and Robert O. Cochrane, 1984, 72p., 8 appendices, 29 figures

OFR 5555 Evaluation of the Conventional and Potential Oil and Gas Reserves of the Devonian of Ontario, by Bailey Geological Services Ltd. and Robert O. Cochrane, 1985, 178p., 9 appendices, and 46 figures.

OFR 5578 Evaluation of Conventional and Potntial Oil and Gas Reserves of the Silurian Sandstone Reservoirs of Ontario; by Bailey Geological Services Ltd. and Robert O. Cochrane, 1985, 275p., 12 appendices, and 39 figures.

### Ontario Geological Survey - Petroleum Resources P. Number Maps Available at a Scale of 1:250,000

See Figure 26 for Key Map. All P. Number Maps are 50 cents each unless otherwise specified

P.2625 Structure Top Trenton Group, North West Area, Southern Ontario

P.2626 Structure Top Trenton Group, South West Area, Southern Ontario

P.2627 Structure Top Trenton Group, South Central Area, Southern Ontario

P.2628 Structure Top Trenton Group, North Central Area, Southern Ontario

P.2629 Structure Top Trenton Group, Eastern Area, Southern Ontario

P.2630 Structure Top Ordovician Carbonate, Ottawa Lowlands Area, Southern Ontario

P.2631 Structure Top Black River Group, North West Area, Southern Ontario

P.2632 Structure Top Black River Group, South West Area, Southern Ontario

P.2633 Structure Top Black River Group, South Central Area, Southern Ontario

P.2634 Structure Top Black River Group, North Central Area, Southern Ontario

P.2635 Structure Top Black River Group, Eastern Area, Southern Ontario

P.2637 Isopach Trenton Group, North West Area, Southern Ontario

P.2638 Isopach Trenton Group, South West Area, Southern Ontario

P.2639 Isopach Trenton Group, South West Area, Southern Ontario

P.2640 Isopach Trenton Group, North Central Area, Southern Ontario

P.2641 Isopach Trenton Group, Eastern Area, Southern Ontario

P.2642 Isopach Total Ordovician Carbonate, Ottawa Lowlands Area, Southern Ontario

P.2643 Isopach Black River Group, North West Area, Southern Ontario

P.2644 Isopach Black River Group, South West Area, Southern Ontario

P.2645 Isopach Black River Group, South Central Area, Southern Ontario

P.2646 Isopach Black River Group, North Central Area, Southern Ontario

P.2647 Isopach Black River Group, Eastern Area, Southern Ontario

P.2649 Structure Top Shadow Lake Formation, North West Area, Southern Ontario

P.2650 Structure Top Shadow Lake Formation, South West Area, Southern Ontario

P.2651 Structure Top Shadow Lake Formation, South Central Area, Southern Ontario

P.2652 Structure Top Shadow Lake Formation, North Central Area, Southern Ontario

P.2653 Structure Top Shadow Lake Formation, Eastern Area, Southern Ontario

P.2654 Structure Base Ordovician Carbonate, Ottawa Lowlands Area

P.2655 Structure Top Precambrian, North West Area, Southern Ontario

P.2656 Structure Top Precambrian, South West Area, Southern Ontario

P.2657 Structure Top Precambrian, South Central Area, Southern Ontario

P.2658 Structure Top Precambrian, North Central Area, Southern Ontario

P.2659 Structure Top Precambrian, Eastern Area, Southern Ontario

P.2660 Structure Top Precambrian, Ottawa Lowlands Area, Southern Ontario

P.2661 Isopach Shadow Lake Formation to Precambrian, North West Area, Southern Ontario

P.2662 Isopach Shadow Lake Formation to Precambrian, South West Area, Southern Ontario

P.2663 Isopach Shadow Lake Formation to Precambrian, South Central Area, Southern Ontario

P.2664 Isopach Shadow Lake Formation to Precambrian, North Central Area, Southern Ontario

P.2665 Isopach Shadow Lake Formation to Precambrian, Eastern Area, Southern Ontario

P.2666 Isopach Base Ordovician Carbonate to Precambrian, Ottawa Lowlands Area, Southern Ontario

**Ontario Geological Survey – Petroleum Resources P.Number Maps Available at a Scale of 1:100,000**

See Figure 27 for Key Map.

P.2740 Structure, Top Pre-Hamilton, Devonian Carbonates, Lake Erie Map A

P.2741 Structure, Top Pre-Hamilton, Devonian Carbonates, Lake Erie Map B

P.2742 Structure, Top Pre-Hamilton, Devonian Carbonates, Lake Erie Map C

P.2743 Structure, Top Pre-Hamilton, Devonian Carbonates, Lake Erie Map D

P.2744 Structure, Top Pre-Hamilton, Devonian Carbonates, Lake Erie Map E

P.2745 Structure, Top Pre-Hamilton, Devonian Carbonates, Lake Erie Map F

P.2746 Structure, Top Pre-Hamilton, Devonian Carbonates, Lake Erie Map G

P.2747 Structure, Top Pre-Hamilton, Devonian Carbonates, Lake Erie Map H

P.2748 Structure, Top Pre-Hamilton, Devonian Carbonates, Essex County.

P.2749 Structure, Top Pre-Hamilton, Devonian Carbonates, Kent County.

P.2750 Structure, Top Pre-Hamilton, Devonian Carbonates, Lambton County.

P.2751 Structure, Top Pre-Hamilton, Devonian Carbonates, Elgin County.

P.2752 Structure, Top Pre-Hamilton, Devonian Carbonates, Regional Municipality of Haldimand – Norfolk.

P.2753 Structure, Top Pre-Hamilton, Devonian Carbonates, Middlesex County.

P.2754 Structure, Top Pre-Hamilton, Devonian Carbonates, Oxford County.

P.2755 Structure, Top Pre-Hamilton, Devonian Carbonates, Brant County.

P.2756 Structure, Top Pre-Hamilton, Devonian Carbonates, Regional Municipality of Niagara.

P.2757 Structure, Top Pre-Hamilton, Devonian Carbonates, Huron County.

P.2758 Structure, Top Pre-Hamilton, Devonian Carbonates, Perth County.

P.2759 Structure, Top Pre-Hamilton, Devonian Carbonates, Bruce County.

P.2760 Isopach Gross Columbus Sandstone Section, Lake Erie Map A.

P.2761 Isopach Gross Columbus Sandstone Section, Lake Erie Map B.

P.2762 Isopach Gross Columbus Sandstone Section, Lake Erie Map C.

P.2763 Isopach Gross Columbus Sandstone Section, Lake Erie Map D.

P.2764 Isopach Gross Columbus Sandstone Section, Lake Erie Map E.

P.2765 Isopach Gross Columbus Sandstone Section, Lake Erie Map F.

P.2766 Isopach Gross Columbus Sandstone Section, Lake Erie Map G.

P.2767 Isopach Gross Columbus Sandstone Section, Lake Erie Map H.

P.2768 Isopach Gross Columbus Sandstone Section, Essex County.

P.2769 Isopach Gross Columbus Sandstone Section, Kent County.

P.2770 Isopach Gross Columbus Sandstone Section, Lambton County.

P.2771 Isopach Gross Columbus Sandstone Section, Elgin County.

P.2772 Isopach Gross Columbus Sandstone Section, Regional Municipality of Haldimand-Norfolk.

P.2773 Isopach Gross Columbus Sandstone Section, Middlesex County.

P.2774 Isopach Gross Columbus Sandstone Section, Oxford County.

P.2775 Structure Base Columbus Sandstone, Lake Erie Map A.

P.2776 Structure Base Columbus Sandstone, Lake Erie Map B.

P.2777 Structure Base Columbus Sandstone, Lake Erie Map C.

P.2778 Structure Base Columbus Sandstone, Lake Erie Map D.

P.2779 Structure Base Columbus Sandstone, Lake Erie Map E.

P.2780 Structure Base Columbus Sandstone, Lake Erie Map F.

P.2781 Structure Base Columbus Sandstone, Lake Erie Map G.

P.2782 Structure Base Columbus Sandstone, Lake Erie Map H.

P.2783 Structure Base Columbus Sandstone, Essex County.

P.2784 Structure Base Columbus Sandstone, Kent County.

P.2785 Structure Base Columbus Sandstone, Lambton County.

P.2786 Structure Base Columbus Sandstone, Elgin County.

P.2787 Structure Base Columbus Sandstone, Middlesex County.

P.2788 Structure Base Columbus Sandstone, Oxford County.

P.2789 Isopach Map of the Oriskany-Springvale Sandstone, Lake Erie Map A.

P.2790 Isopach Map of the Oriskany-Springvale Sandstone, Lake Erie Map B.

P.2791 Isopach Map of the Oriskany-Springvale Sandstone, Lake Erie Map C.

P.2792 Isopach Map of the Oriskany-Springvale Sandstone, Lake Erie Map D.

P.2793 Isopach Map of the Oriskany-Springvale Sandstosne, Lake Erie Map E.

P.2794 Isopach Map of the Oriskany-Springvale Sandstone, Lake Erie Map F.

P.2795 Isopach Map of the Oriskany-Springvale Sandstone, Lake Erie Map G.

P.2796 Isopach Map of the Oriskany-Springvale Sandstone, Lake Erie Map H.

P.2797 Isopach Map of the Oriskany-Springvale Sandstone, Essex County.

P.2798 Isopach Map of the Oriskany-Springvale Sandstone, Kent County.

P.2799 Isopach Map of the Oriskany-Springvale Sandstone, Lambton County.

P.2800 Isopach Map of the Oriskany-Springvale Sandstone, Elgin County.

P.2801 Isopach Map of the Oriskany-Springvale Sandstone, Regional Municipality of Haldimand – Norfolk.

P.2802 Isopach Map of the Oriskany-Springvale Sandstone, Middlesex County.

P.2803 Isopach Map of the Oriskany-Springvale Sandstone, Oxford County.

P.2804 Isopach Sylvania Sandstone, Essex County-Lake Erie.

P.2805 Structure, Top Devonian Sulphur Water-Porosity, Essex County.

P.2806 Structure, Top Devonian Sulphur Water-Porosity, Kent County.

P.2807 Structure, Top Devonian Sulphur Water-Porosity, Lambton County.

P.2808 Structure, Top Devonian Sulphur Water-Porosity, Elgin County.

P.2809 Structure, Top Devonian Sulphur Water-Porosity, Regional Municipality of Haldimand-Norfolk.

P.2810 Structure, Top Devonian Sulphur Water-Porosity, Middlesex County.

P.2811 Structure, Top Devonian Sulphur Water-Porosity, Oxford County.

P.2812 Structure, Top Devonian Sulphur Water-Porosity, Huron County.

P.2813 Structure, Top Devonian Sulphur Water-Porosity, Perth County.

P.2814 Structure, Top Devonian Sulphur Water-Porosity, Bruce County.

P.2815 Isopach Top Devonian Carbonate to Top Sulphur Water-Porosity, Essex County.

P.2816 Isopach Top Devonian Carbonate to Top Sulphur Water-Porosity, Kent County.

P.2817 Isopach Top Devonian Carbonate to Top Sulphur Water-Porosity, Lambton County.

P.2818 Isopach Top Devonian Carbonate to Top Sulphur Water-Porosity, Elgin County.

P.2819 Isopach Top Devonian Carbonate to Top Sulphur Water-Porosity, Regional Municipality of Haldimand-Norfolk

P.2820 Isopach Top Devonian Carbonate to Top Sulphur Water-Porosity, Middlesex County.

P.2821 Isopach Top Devonian Carbonate to Top Sulphur Water-Porosity, Oxford County.

P.2822 Isopach Top Devonian Carbonate to Top Sulphur Water-Porosity, Regional Municipality of Niagara.

P.2823 Isopach Top Devonian Carbonate to Top Sulphur Water-Porosity, Huron County.

P.2824 Isopach Top Devonian Carbonate to Top Sulphur Water-Porosity, Perth County.

P.2825 Isopach Top Devonian Carbonate to Top Sulphur Water-Porosity, Bruce County.

P.2862 Silurian Sandstone Oil and Gas Pools, Lake Erie Map A.

P.2863 Silurian Sandstone Oil and Gas Pools, Lake Erie Map B.

P.2864 Silurian Sandstone Oil and Gas Pools, Lake Erie Map C.

P.2865 Silurian Sandstone Oil and Gas Pools, Lake Erie Map D.

P.2866 Silurian Sandstone Oil and Gas Pools, Lake Erie Map E.

P.2867 Silurian Sandstone Oil and Gas Pools, Lake Erie Map F.

P.2868 Silurian Sandstone Oil and Gas Pools, Elgin County.

P.2869 Silurian Sandstone Oil and Gas Pools, Oxford County.

P.2870 Silurian Sandstone Oil and Gas Pools, Regional Municipality of Haldimand-Norfolk.

P.2871 Silurian Sandstone Oil and Gas Pools, Brant County.

P.2872 Silurian Sandstone Oil and Gas Pools, Regional Municipality of Hamilton-Wentworth.

P.2873 Silurian Sandstone Oil and Gas Pools, Regional Municipality of Niagara.

P.2874 Structure Top Rochester Formation, Lake Erie Map A.

P.2875 Structure Top Rochester Formation, Lake Erie Map B.

P.2876 Structure Top Rochester Formation, Lake Erie Map C.

P.2877 Structure Top Rochester Formation, Lake Erie Map D.

P.2878 Structure Top Rochester Formation, Lake Erie Map E.

P.2879 Structure Top Rochester Formation, Lake Erie Map F.

P.2880 Structure Top Rochester Formation, Lake Erie Map G.

P.2881 Structure Top Rochester Formation, Lake Erie Map H.

P.2882 Structure Top Rochester Formation, Essex County.

P.2883 Structure Top Rochester Formation, Kent County.

P.2884 Structure Top Rochester Formation, Lambton County.

P.2885 Structure Top Rochester Formation, Middlesex County.

P.2886 Structure Top Rochester Formation, Elgin County.

P.2887 Structure Top Rochester Formation, Oxford County.

P.2888 Structure Top Rochester Formation, Regional Municipality of Haldimand-Norfolk.

P.2889 Structure Top Rochester Formation, Brant County.

P.2890 Structure Top Rochester Formation, Regional Municipality of Niagara.

P.2891 Structure Top Rochester Formation, Regional Municipality of Hamilton-Wentworth.

P.2892 Structure Top Rochester Formation, Regional Municipality of Halton.

P.2893 Structure Top Rochester Formation, Regional Municipality of Waterloo.

P.2894 Structure Top Rochester Formation, Perth County.

P.2895 Structure Top Rochester Formation, Huron County.

P.2896 Structure Top Rochester Formation, Wellington County.

P.2897 Structure Top Rochester Formation, Regional Municipality of Peel.

P.2898 Structure Top Rochester Formation, Dufferin County.

P.2899 Structure Top Rochester Formation, Simcoe County.

P.2900 Structure Top Rochester Formation, Bruce County.

P.2901 Structure Top Rochester Formation, Grey County.

P.2902 Isopach Silurian Thorold Sandstone, Lake Erie Map A.

P.2903 Isopach Silurian Thorold Sandstone, Lake Erie Map B.

P.2904 Isopach Silurian Thorold Sandstone, Lake Erie Map C.

P.2905 Isopach Silurian Thorold Sandstone, Lake Erie Map D.

P.2906 Isopach Silurian Thorold Sandstone, Lake Erie Map E.

P.2907 Isopach Silurian Thorold Sandstone, Lake Erie Map F.

P.2908 Isopach Silurian Thorold Sandstone, Elgin County.

P.2909 Isopach Silurian Thorold Sandstone, Middlesex County.

P.2910 Isopach Silurian Thorold Sandstone, Regional Municipality of Haldimand-Norfolk.

P.2911 Isopach Silurian Thorold Sandstone, Oxford County.

P.2912 Isopach Silurian Thorold Sandstone, Brant County.

P.2913 Isopach Silurian Thorold Sandstone, Regional Municipality of Niagara.

P.2914 Isopach Silurian Thorold Sandstone, Regional Municipality of Hamilton-Wentworth.

P.2915 Isopach Silurian Thorold Sandstone, Wellington County.

P.2916 Isopach Silurian Grimsby Sandstone, Lake Erie Map A.

P.2917 Isopach Silurian Grimsby Sandstone, Lake Erie Map B.

P.2918 Isopach Silurian Grimsby Sandstone, Lake Erie Map C.

P.2919 Isopach Silurian Grimsby Sandstone, Lake Erie Map D.

P.2920 Isopach Silurian Grimsby Sandstone, Lake Erie Map E.

P.2921 Isopach Silurian Grimsby Sandstone, Lake Erie Map F.

P.2922 Isopach Silurian Grimsby Sandstone, Elgin County.

P.2923 Isopach Silurian Grimsby Sandstone, Middlesex County.

P.2924 Isopach Silurian Grimsby Sandstone, Regional Municipality of Haldimand-Norfolk.

P.2925 Isopach Silurian Grimsby Sandstone, Oxford County.

P.2926 Isopach Silurian Grimsby Sandstone, Brant County.

P.2927 Isopach Silurian Grimsby Sandstone, Regional Municipality of Niagara.

P.2928 Isopach Silurian Grimsby Sandstone, Regional Municipality of Hamilton-Wentworth.

P.2929 Isopach Silurian Whirlpool Sandstone, Lake Erie Map A.

P.2930 Isopach Silurian Whirlpool Sandstone, Lake Erie Map B.

P.2931 Isopach Silurian Whirlpool Sandstone, Lake Erie Map C.

P.2932 Isopach Silurian Whirlpool Sandstone, Lake Erie Map D.

P.2933 Isopach Silurian Whirlpool Sandstone, Lake Erie Map E.

P.2934 Isopach Silurian Whirlpool Sandstone, Lake Erie Map F.

P.2935 Isopach Silurian Whirlpool Sandstone, Lake Erie Map G.

P.2936 Isopach Silurian Whirlpool Sandstone, Elgin County.

P.2937 Isopach Silurian Whirlpool Sandstone, Middlesex County.

P.2938 Isopach Silurian Whirlpool Sandstone, Oxford County.

P.2939 Isopach Silurian Whirlpool Sandstone, Regional Municipality of Haldimand-Norfolk.

P.2940 Isopach Silurian Whirlpool Sandstone, Brant County.

P.2941 Isopach Silurian Whirlpool Sandstone, Regional Municipality of Niagara.

P.2942 Isopach Silurian Whirlpool Sandstone, Regional Municipality of Hamilton-Wentworth.

P.2943 Isopach Silurian Whirlpool Sandstone, Regional Municipality of Halton.

P.2944 Isopach Silurian Whirlpool Sandstone, Wellington County.

P.2945 Isopach Silurian Whirlpool Sandstone, Regional Municipality of Peel.

P.2946 Isopach Silurian Whirlpool Sandstone, Dufferin County.

P.2947 Isopach Silurian Whirlpool Sandstone, Grey County.

P.2948 Isopach Silurian Whirlpool Sandstone, Simcoe County.

### Miscellaneous Publications

Paper 70-2 Gas Analysis Ontario Gas Wells 1.00

Paper 70-4 Supplement to Catalogue of Ontario Well Samples at the Geological Survey of Canada 1.00

Minutes and Seconds expressed as Decimal parts of a Degree MP/3 no charge

Petroleum Possibilities of the James Bay Lowland Area - Volume 61, Part 6 (maps included), 1952 1.50

Industrial Mineral Report No. 6, Salt in Ontario by D.F. Hewitt, 1962 1.50

Maps and copies of well history cards and related technical information may be obtained by writing to Petroleum Resources Section, Ministry of Natural Resources, 659 Exeter Road, P.O. Box 5463, London, Ontario N6A 4L6 (519-661-2766). Well history cards may also be obtained at the Petroleum Resources Laboratory (519-661-2796).

## MAPS

### Well Location And Status (Current)

NTS Series - See Figure 28 for Key Map
Scale 1:30,000 1.50 each

A2, 3, (3A Pelee Island)
B1 to 5 (inclusive)
C1 to 7 (inclusive)
D1 to 13 (inclusive)
E4 to 18 (inclusive)
F4 to 17 (inclusive)
G6 to 10 (inclusive)
H7 to 9 (inclusive)
I7 to 9 (inclusive)
J7 to 8 (inclusive)
K7 to 8 (inclusive)
Q5 to 6 (Manitoulin Island)

### Lake Maps

Scale 1:50,000. See Figure 29 for Key Map.
Showing Well and Pipeline Locations (West Longitude) 3.00 each

| | |
|---|---|
| Lake Erie Map A | 79° 30' - 78° 55' |
| Lake Erie Map B | 80° 00' - 79° 30' |
| Lake Erie Map C | 80 °30' - 80° 00' |
| Lake Erie Map D | 81° 00' - 80° 30' |
| Lake Erie Map E | 81° 31' - 81° 00' |
| Lake Erie Map F | 82° 00' - 81° 30' |
| Lake Erie Map G | 82° 30' - 82° 00' |
| Lake Erie Map H | 83° 10' - 82° 30' |

### Geological Maps

Scale 1:250,000 2.50 each
1263A (1969)

### S.W. Regional Structure Contour Maps

Scale 1:250,000 5.00 each

| | |
|---|---|
| 76-100 | PreCambrian |
| 76-105 | Salina |
| 76-101 | Cambrian |
| 76-106 | Bass Islands |
| 76-102 | Trenton |
| 76-107 | Dundee |
| 76-103 | Queenston |
| 76-109 | A-2 |
| 76-104 | Rochester |

### Field And Pool Maps

Scale 1:20,000 1.00 each

| | |
|---|---|
| Aldborough 4-20-VII | Hemlock |
| Arthur | Innerkip |
| Becher West | Innerkip East |
| Bentpath | Kimball-Colinville, Payne, Seckerton |
| Bickford | Ladysmith |
| Brigden | Malden |
| Clearville | Mersea 1-15-B |
| Colchester | Moore 3-21-XII |
| Corey East | Moore 7-6-III |
| Corunna | Oil City |
| Courtright | Oil Springs |
| Coveny | Oil Springs East |
| Cromar | Osborne |
| Crowland | Otter Creek-Otter Creek East |
| Dawn 4-28-III | Oxley |
| Dawn 4-33-IX | Plympton 5-19-VI |
| Dawn 5-27-III | Rodney |
| Dawn 5-30-IV | Rosedale |
| Dawn 7-28-V | Ruscom River |
| Dawn 23-II | Sarnia 1-8-A |
| Dawn 47-49 | St. Patricks |
| Dawn 59-85 | Sombra |
| Dawn 156 | Terminus-Terminus North |
| Dawn 167 | Tipperary-Tipperary South |
| Dawn Sombra | Townsend |
| Dover | Venison Creek |
| Dover 1-11-V | Verschoyle West |
| Dover 7-5-V | Waubuno |
| Dungannon | Wilkesport |
| Enniskillen 2-30-IX | Willey |
| Enniskillen 28 | Willey North |
| Glencoe | Wilsonville |
| Gobles | Wilsonville South |
| Gosfield South | Zone |
| Grand Bend | |

### Lake Erie Geological

See Figures 30 and 31 for Key Maps.
Scale 1:50,000 4.00 each

| | |
|---|---|
| 1 Queenston Structure | 8 maps |
| 2 Thorold-Grimsby Structure | 6 maps |
| 3 Irondequoit-Reynales | |

| | |
|---|---|
| Structure | 8 maps |
| 4 Guelph Structure | 8 maps |
| 5 A-2 Structure | 8 maps |
| 6 B-Marker Structure | 8 maps |
| 7 Bass Islands Structure | 8 maps |
| 8 Dundee Structure | 5 maps |
| 1 Drift Isopach | 8 maps |
| 2 Devonian-Carbonate Isopach | 8 maps |
| 3 Bass Island Isopach | 8 maps |
| 4 Guelph-Rochester Isopach | 8 maps |
| 5 Whirlpool Isopach | 5 maps |

### Oil And Gas Pool & Pipeline Map Of Southwestern Ontario — P2499

Scale 1:250,000 1.50 each

### Location Of Seismic Lines, Southwestern Ontario

Scale 1:100,000 0.50 each

1979 7 Maps (inclusive) P2573 to P2579

1980 8 Maps (inclusive) P2707 to P2714

## XEROX FACILITIES

Xerox copies of all production reports, engineering reports core analyses and well history cards .25 each

## MICROFICHE

Hudson Bay - James Bay Microfiche Index Assessment Reports 10.00 each

INDEX NUMBER — CONTENTS

A Field report general geological reconnaisance of Hudson Bay - summer 1908

B Detailed geomorphic evaluation of James Bay

C Detailed geomorphic evaluation James Bay Lowlands Aquintaine (compiled by geophoto)

D Studies of samples collected around the Hudson Bay Lowlands & Northern Islands - Canada summer 1968. Comparisons with Kaskattama No. 1 well - 1969

E Aeromagnetic interpretation for part of Moosonee River Basin, District of Cochrane, Aquintaine 1969

F Aerial magnetic interpretation Moose River area, Mid-eastern Oil and Gas Ltd., Anthony Oil and Gas Explorations Ltd., Dolphin Explorations Ltd.

G Gravity survey, Moose River area, Mid-eastern Oil & Gas Ltd., Anthony Oil & Gas Ltd., Dolphin Explorations Ltd.

H Gravity survey, Fort Severn Area, Mid-eastern Oil & Gas Ltd., Anthony Oil & Gas Explorations Ltd., Dolphin Explorations Ltd.

I Aerial magnetic interpretation, Fort Severn area, Mid-eastern Oil & Gas Ltd., Anthony Gas & Oil Explorations Ltd., Dolphin Explorations Ltd.

J Aerial magnetic interpretation, Moose River area, Transalta Oil & Gas Ltd.

K Gravity Survey, Moose River area, Transalta Oil & Gas Ltd.

L Transalta - Geological Report, Licence No. 14502 and 14503 - James Bay

M Aquintaine - Laboratory Report Pen. No. 1 Well

N Bluewater - geomorphic evaluation, Moose River Basin

O Bluewater - G.S.C. Magnetic Data, James Bay

P Bluewater - Geology, James Bay

Q Mariner - geology and petroleum possibilities, Moose River Basin

R Quintaine - Palynoplanktogical study, Sandbank Lake No. 1 Well

S Consumers' - Aeromagnetic interpretation, James Bay

T Consumers' - Interpretation of G.S.C. Aeromagnetic Survey Soweska River, James Bay

U Aquitaine - 1. High Sensitivity Aeromagnetic Survey, James Bay. 2. Refraction and gravity, James Bay

V Aquitaine - Refraction and gravity survey, Hambly Lake Well No. 1

W Consumers' - Aeromagnetic Survey, Martinson Lake

Report on Airborne Magnetometer surveys for Aquitaine - James Bay Lowlands (not microfilmed)

## OUT OF PRINT

Out of print originals are on file with the Mines Library, MNDM, 77 Grenville St., Room 812, Toronto, Ontario, N5S 1B3(416-965-1352)

Annual Reports for 1920-1953, 1955-1959, 1961-1965, 1967, 1968.

Paper 67-2. A Guide to the Subsurface Paleozoic Stratigraphy of Southern Ontario, by R.J. Beards.

Paper 68-2. Subsurface Disposal of Liquid Wastes in Ontario, by D.D. McLean.

Paper 71-2. Structural Geology of Southwestern Ontario and Southeastern Michigan, by Robert J. Brigham.

Paper 73-2. The Oil and Gas Potential of the "Clinton-Cataract" Reservoirs of Norfolk County, by T.A. MacDougall.

Report of the Committee on Oil and Gas Resources Part 1 (Offshore Activity - 1961) Part 2 (Underground Storage of Natural Gas - 1962).

Index of Ordovician and Cambrian Wells Drill in Southwestern Ontario Prior to 1963, by D.A. Sharp.

Paper 11-1a. Background paper on Ontario Petroleum Resources.

Offshore Exploration in Great Lakes Region, by Bryson C. Donnan, 1961.

Geological Circular 7. Offshore Exploration for Gas Under the Canadian Waters of the Great Lakes, by A.C. Newton and W.E. Koepke, 1964.

*Figure 26. Key map for Ontario Geological Survey -- Petroleum Resources P. number Maps (1:250 000).*

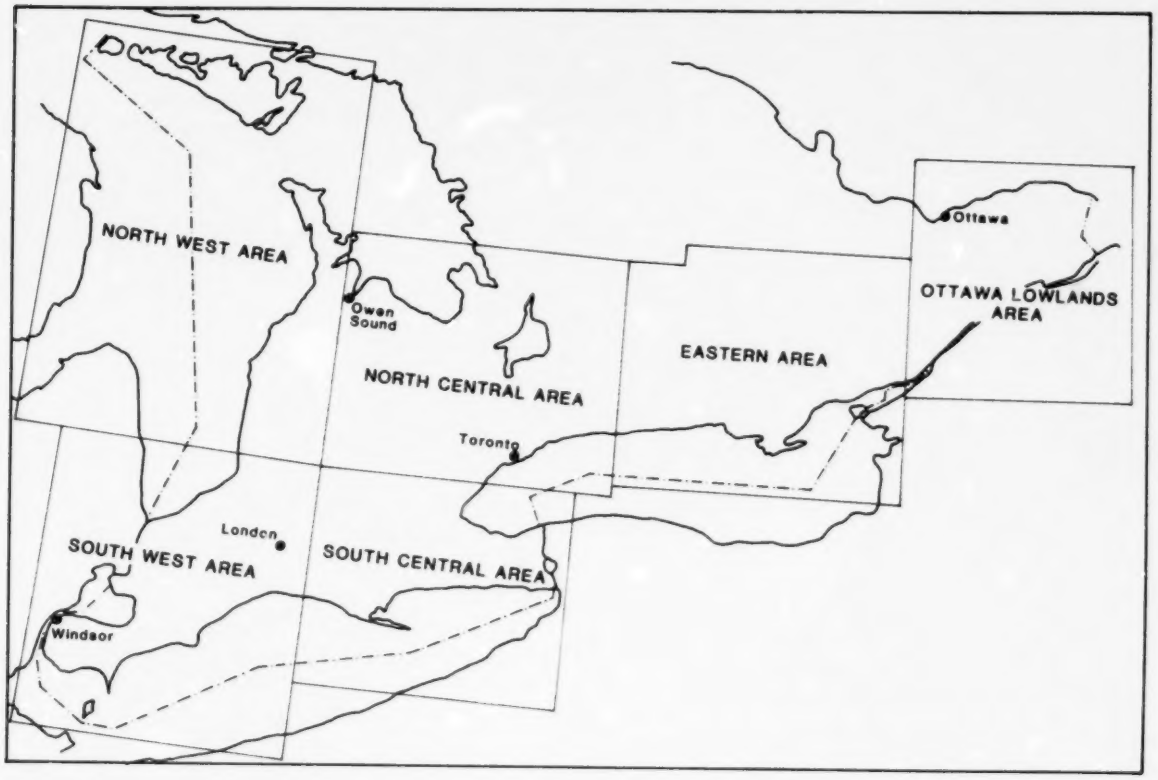
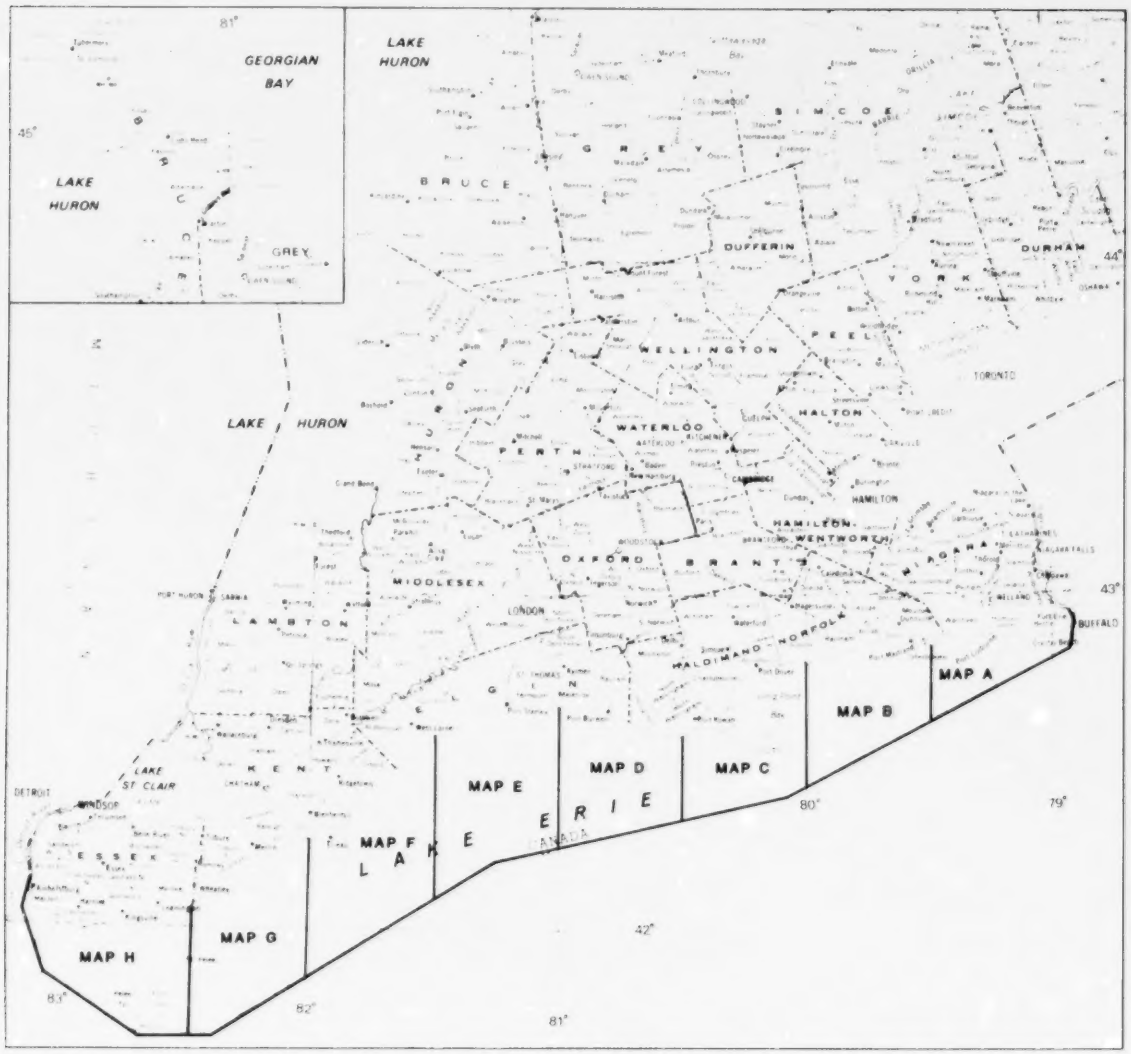


*Figure 27. Key map for Ontario Geological Survey — Petroleum Resources P. number Maps (1:100 000).*



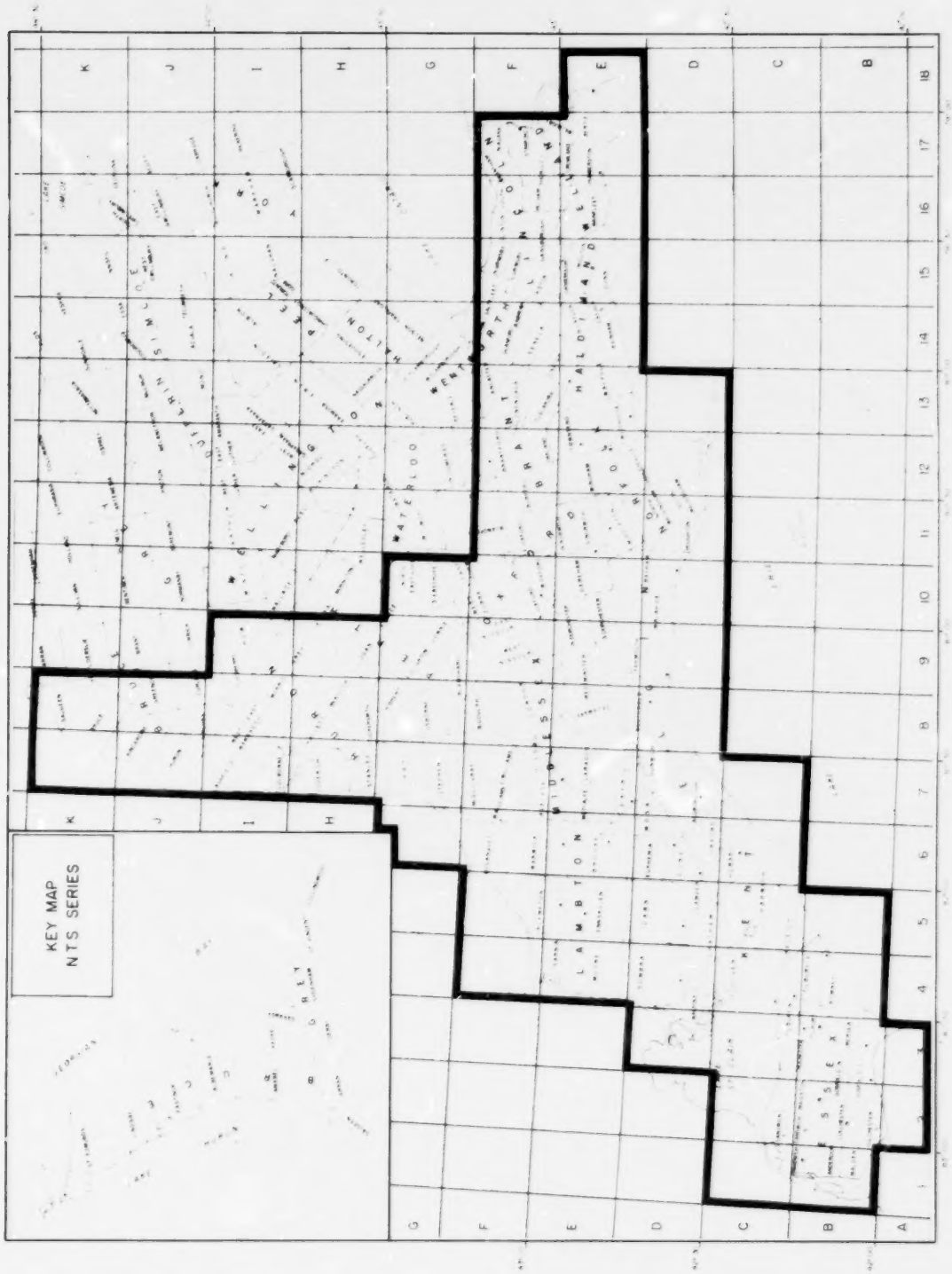



*Figure 28. Key map for NTS Series.*

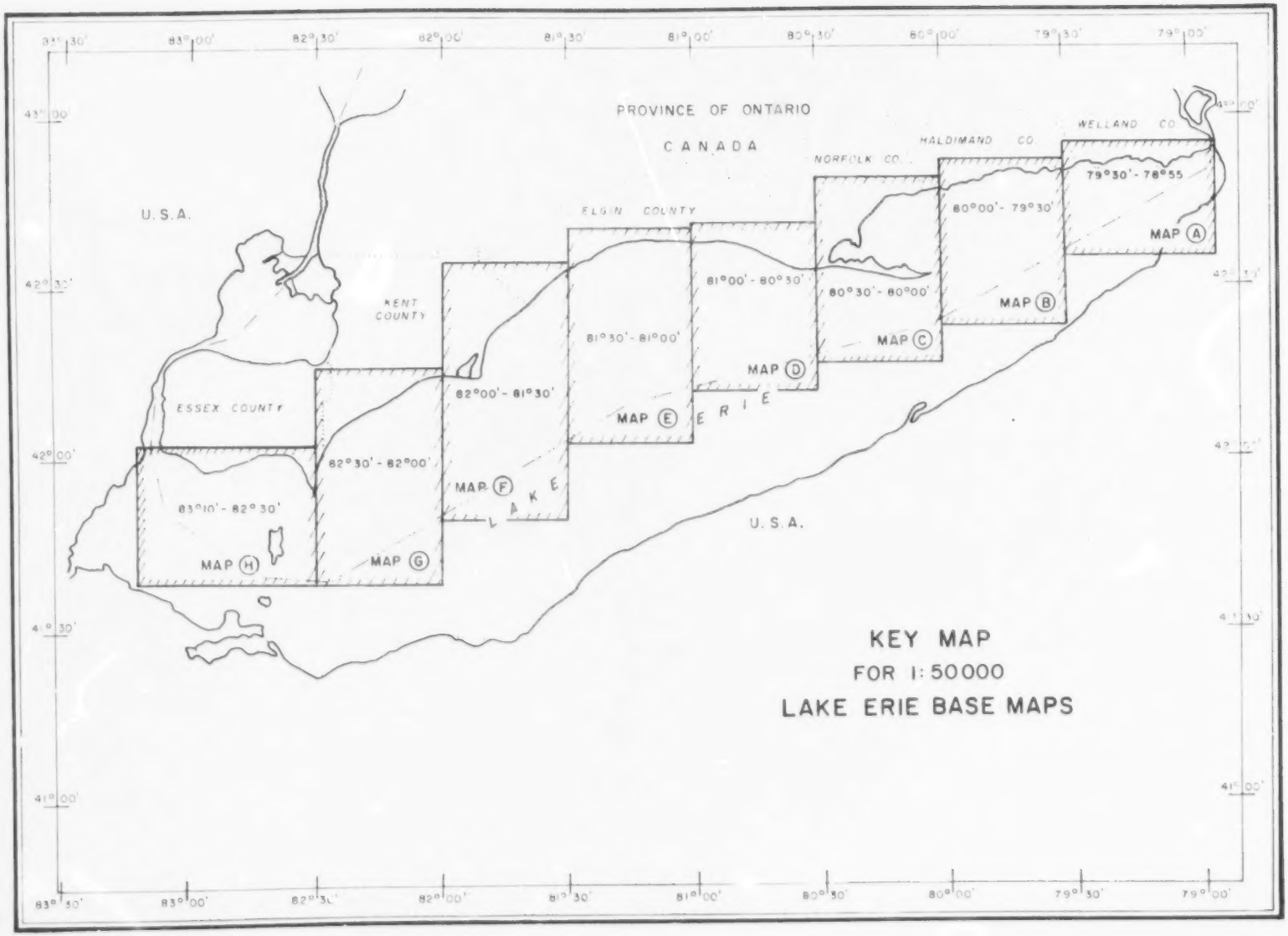



*Figure 29. Key map for 1:50 000 Lake Erie Base Maps.*

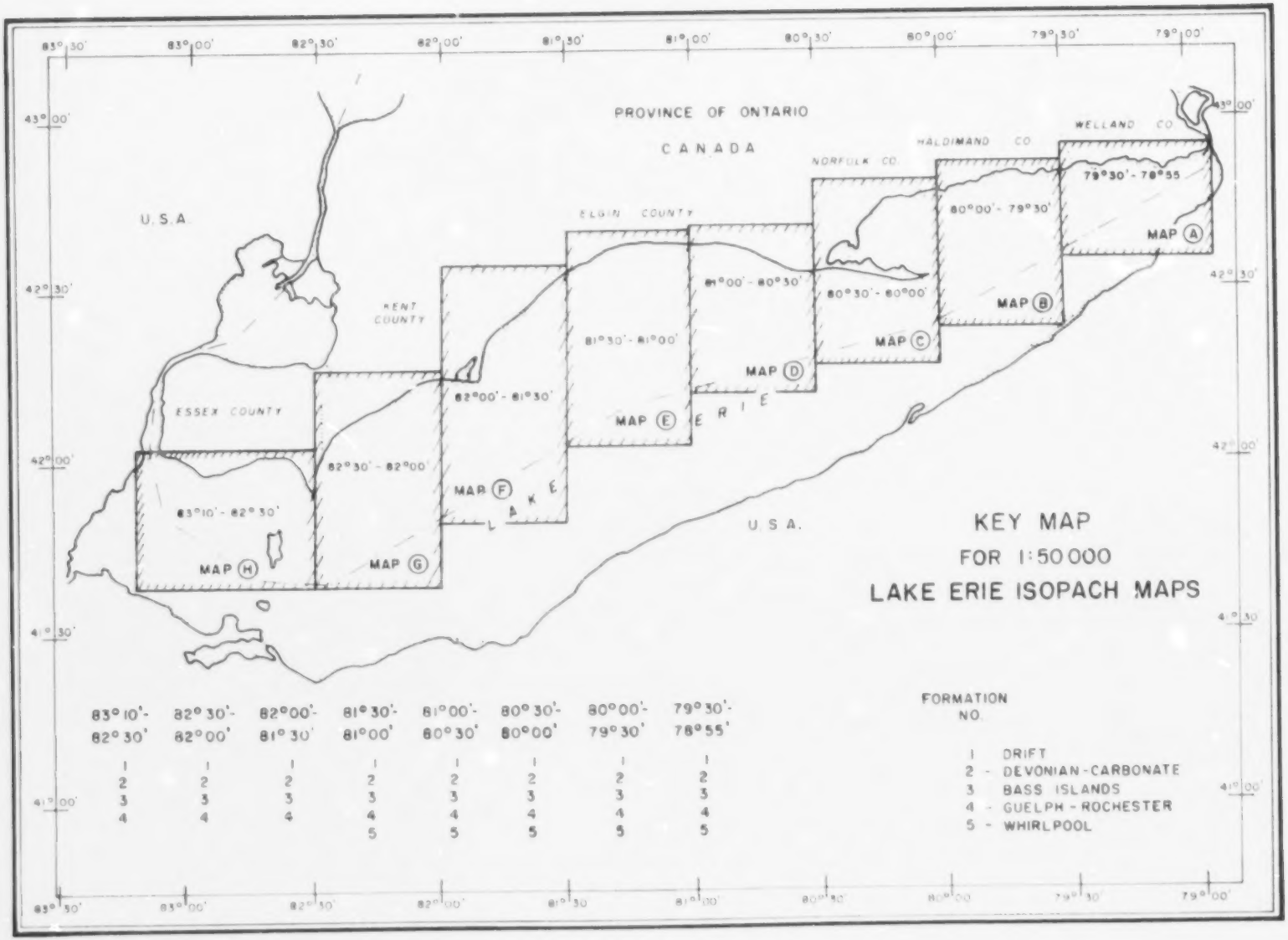



*Figure 30. Key map for 1:50 000 Lake Erie Isopach Maps.*

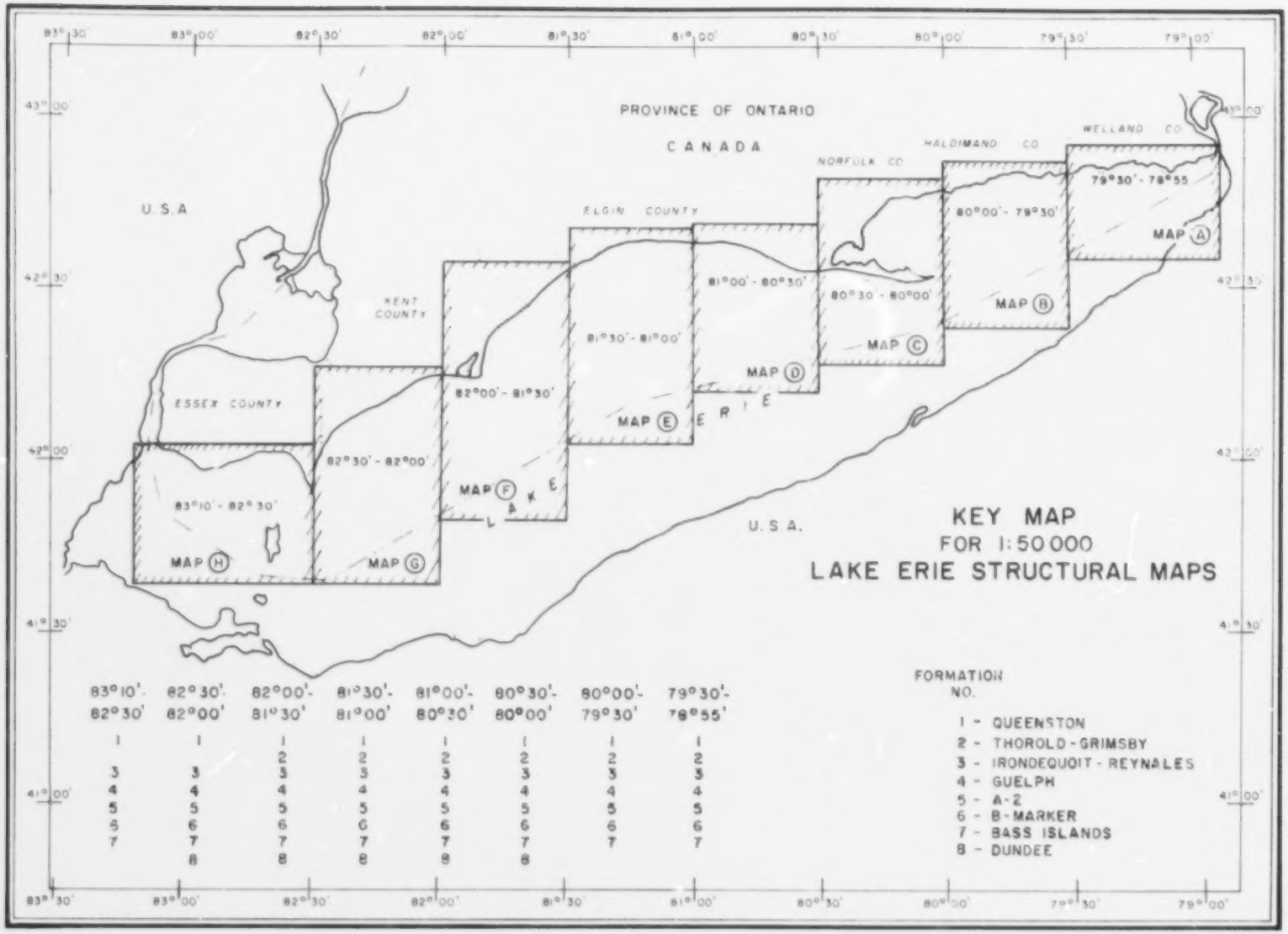



*Figure 31. Key map for 1:50 000 Lake Erie Structural Maps.*

# Appendix IV. Explanation of Data Items and Abbreviations

**WELL NAME:** The official name of the well as issued on the Permit to Bore, Drill or Deepen a Well (Form 106).

**PERMIT NO.:** This number is assigned to the well location upon approval of the Application for a Permit to Bore, Drill, or Deepen a Well. Where the original location is abandoned as a result of drilling or completion difficulties, and the rig is moved or skidded to a new location within the same drilling tract, the original Permit No. using the alphabetical suffix "A" will apply to the second well.

**CLASSIFICATION:** Eacn well is classified at the time the Application for a Permit to Bore, Drill, or Deepen a Well is approved.

**Classification Codes**

| | |
|---|---|
| NFW | New Field Wildcat |
| NPW | New Pool Wildcat |
| DPT | Deeper Pool Test |
| SPT | Shallower Pool Test |
| EXT | Extension |
| DEV | Development |
| INJ | Injection |
| STRAT | Stratigraphic Test |
| STOR | Storage |
| BRINE | Brine |
| DISP | Disposal |
| SOURC | Source |
| OBSR | Observation |
| UNCLA | Unclassified |
| LOST | Lost |
| OTH | Other |

**CURRENT STATUS:** Status of the well following drilling and completion (if attempted).

**Current Status Codes**

GP: Gas Producer
GP-SUS: Gas Producer-Suspended
GP-ABD: Gas Producer-Abandoned
GP-OP: Gas Producer-Oil Producer
GP-OP-SUS: Gas Producer-Oil Producer-Suspended
GP-OP-ABD: Gas Producer-Oil Producer-Abandoned
GP-OS: Gas Producer-Oil Show
GP-OS-SUS: Gas Producer-Oil Show-Suspended
GP-OS-ABD: Gas Producer-Oil Show-Abandoned
GS-SUS: Gas Show-Suspended
GS-ABD: Gas Show Abandoned
GS-OS-SUS: Gas Show-Oil Show-Suspended
GS-OS-ABD: Gas Show-Oil Show-Abandoned
OP: Oil Producer
OP-SUS: Oil Producer-Suspended
OP-ABD: Oil Producer-Abandoned
OP-GS: Oil Producer-Gas Show
OP-GS-SUS: Oil Producer-Gas Show-Suspended
OP-GS-ABD: Oil Producer-Gas Show-Abandoned
OS-SUS: Oil Show-Suspended
OS-ABD: Oil Show-Abandoned
BRINE: Brine
BRINE-SUS: Brine-Suspended
BRINE-ABD: Brine-Abandoned
DISPOSAL: Disposal
DISP-SUS: Disposal-Suspended
DISP-ABD: Disposal-Abandoned
DRY-SUS: Dry-Suspended
DRY-ABD: Dry-Abandoned
INJ: Injection
INJ-SUS: Injection-Suspended
INJ-ABD: Injection-Abandoned
LOST-SUS: Lost-Suspended
LOST-ABD: Lost-Abandoned
OBSR: Observation
OBSR-SUS: Observation-Suspended
OBSR-ABD: Observation-Abandoned
PPS: Petroleum Product Storage
PPS-SUS: Petroleum Product Storage-Suspended
PPS-ABD: Petroleum Product Storage-Abandoned
**SOURCE:** Water Source Well
SOURCE-SUS: Water Source Well-Suspended
SOURCE-ABD: Water Source Well-Abandoned
STORAGE: Natural Gas Storage
STOR-SUS: Natural Gas Storage-Suspended
STOR-ABD: Natural Gas Storage-Abandoned
STRAT-SUS: Stratigraphic Test-Suspended
STRAT-ABD: Stratigraphic Test-Abandoned
SW-SUS: Salt Water-Suspended
SW-ABD: Salt Water-Abandoned

**GEOGRAPHIC DESCRIPTION:** Wells are listed alphabetically by County, Township, Block, Tract, Lot, and Concession.

**Abbreviations for concessions**

| | |
|---|---|
| AUS | Ausable |
| BF | Broken Front |
| FLH | Front Lake Huron |
| LRE | Lake Road East |
| LRW | Lake Road West |
| NB | North Boundary |
| NER | North Egremont Road |
| NLR | North Lake Road |
| NTR | North Talbot Road |
| NUR | North Union Road |
| R | Range |
| SB | South Boundary |
| SER | South Egremont Road |
| SLR | South Lake Road |
| STR | South Talbot Road |
| SUR | South Union Road |

**CO-ORDINATES:** Surveyed co-ordinates for all land wells are given in metres from lot lines, unless otherwise stated. Surveyed co-ordinates for lake wells are recorded by latitude and longitude, in degrees, minutes, and seconds. Latitude and longitude values for all land wells have also been determined and appear in this report.

**KB ELEVATION:** Ground elevation in metres above sea level plus number of metres to rig floor or kelly bushing.

**RIG TYPES:** Abbreviation for rig types are as follows

| | |
|---|---|
| CAB | Cable Tool Rig |
| OCP | Offshore Cable Platform |
| ORF | Offshore Rotary Floater |
| ORJ | Offshore Rotary Jackup |
| ORS | Offshore Rotary Semisubmersible |
| ROT | Rotary Rig |
| UNK | Unknown |

**SAMPLES:** Drill cuttings samples are retained for all wells and are available for examination at:

Petroleum Resources Laboratory
Ontario Ministry of Natural Resources
458 Central Avenue
London, Ontario, Canada
N6B 2E5

**CORES:** The intervals cored are given and unless otherwise stated, the cores are stored at the Petroleum Resources Laboratory.

**Core Type Codes**

| | |
|---|---|
| CC1 | 2.5 cm Wedge |
| CC2 | Conventional (greater than 5 cm) |
| CCF | Full Width Slab |
| CCO | Core Chips Only |
| RSO | Representative Sections Only |
| SC2 | Slimhole (less than 5 cm) |
| SCS | Slimhole Slabbed |

**TREATMENT:** If a well has been stimulated to increase production, a treatment code is included to indicate the type of stimulation program.

**Treatment Type Codes**

| | |
|---|---|
| ACID | Acidized |
| CONF | Fracture-conventional |
| DYNM | Explosives-dynamite |
| FOAM | Fracture-foam |
| LARF | Fracture-large volume |
| NTGY | Explosives-nitroglycerine |
| SHOT | Explosives-shot |

**LOGGING RECORD:** The type of logs taken at the well and the logging company are recorded.

**Log Type Codes**

| | |
|---|---|
| CALP | Caliper |
| CBLK | Cyberlook |
| CBND | Cement Bond |
| CBSC | Cement Bond-Sonic |
| CCL | Cosing Collar Locator |
| CDM | Continuous Dipmeter |
| CMPL | Completion |
| CNFD | Compensated Neutron-Formation Density |
| CNL | Compensated Neutron |
| CORI | Coriband |
| CYBER | Cyber |
| DENLD | Density |
| DIFS | Dual Induction |
| DIL | Dual Induction |
| DIPM | Dipmeter |
| DIRS | Directional Survey |
| DLL | Dual Laterlog |
| DLLM | Dual Laterlog-Microlaterolog |
| ES | Electric Survey |
| FOCL | Focus |
| FRXL | Forxo |
| GGDE | Gamma-Gamma Density |
| GRDL | Guard |
| GRFD | Gamma Ray-Formation Density |
| GRL | Gamma Ray |
| GRNL | Gamma Ray-Neutron |
| GRSL | Gamma Ray-Sonic |
| IES | Induction Electric Survey |
| ISF | Induction Spherically Focused |
| LATL | Laterolog |
| MICL | Microlog |
| MLAT | Microlaterolog |
| MSFL | Micro-Spherically Focused |
| MSGM | Microseismogram |
| NEUT | Neutron |
| NGRS | Natural Gamma Ray Spectroscopy |
| PRMS | Permeability, Spinner |
| PRXL | Proximity |
| RTRS | Radioactive Tracer Survey |
| SNP | Sidewall Neutron Porosity |
| SOLL | Sonic |
| SYRG | Synergic Log System |
| TOT | Thermal Decay Time |
| TMPL | Temperature |
| VELS | Velocity Survey |
| XPTL | Experimental |

**GEOLOGY:** The geological formation picks are supplied by OMNR geologists. Unpublished operator formation picks are available from the Ministry on request.

The nomenclature used in this report is based on published descriptions of the various geological units.

# Appendix V. Summary of Wells Drilled in 1983

## ALPHABETICAL INDEX OF WELLS DRILLED IN 1983


| Well Name | Permit No. | Page |
|---|---|---|
| A-P STEVENSON CAMDEN 2-4-14-A | 6053 | 147 |
| A-P STEVENSON CAMDEN 2-2-14-A | 5821 | 145 |
| ALLIED ANDERDON G-1 | 6006 | 98 |
| ALLIED ANDERDON G-2 | 6007 | 99 |
| ALLIED CHEMICAL #12 | 5914 | 97 |
| AMER BLAND 3A BLANDFORD 5-6-6-VII | 6106 | 295 |
| ATKINSON 4 ENNISKILLEN 2-8-9-XIV | 6093 | 199 |
| B.C.R. #1 ENNISKILLEN 3-12-XII | 6275 | 200 |
| BAILEY 2 HOWARD 4-2-5-I | 6310 | 159 |
| BAYVIEW #7 CHARLOTTEVILLE 4-4-IV | 6119 | 256 |
| BEDFORD-POSTELL MOORE 3-26-III | 6344 | 215 |
| BEDFORD-POSTELL MOSA 3-6-6-IV | 6081 | 245 |
| BEDFORD-POSTELL MOSA 2-4-6-IV | 6101 | 239 |
| BEDFORD-POSTELL MOSA 2-2-6-IV | 6116 | 237 |
| BEDFORD-POSTELL MOSA 4-1-7-IV | 6253 | 248 |
| BEDFORD-POSTELL MOSA 1-2-7-V | 6303 | 234 |
| BEDFORD-POSTELL MOSA 1-1-7-IV | 6122 | 233 |
| BEDFORD-POSTELL MOSA 3-2-7-IV | 6126 | 243 |
| BLUEWATER #6 CHARLOTTEVILLE 1-5-III | 6304 | 252 |
| BLUEWATER TRUE SARNIA 6-12-VIII | 6260 | 218 |
| BLUEWATER 5 CHARLOTTEVILLE 1-4-IV | 6320 | 250 |
| BRETT CAMERON 1 DELEWARE 18 D GORE | 6259 | 231 |
| BRETT GAGNIER 1 TILBURY W. 2-5-XI | 6383 | 113 |
| C.S. ET AL DORCHESTER S. 8-7-VII | 6277 | 88 |
| C.W.P. 2 L.ERIE 229-X | 6288 | 161 |
| C.W.P. 3 L.ERIE 228 X | 6287 | 160 |
| C.W.P. 3 L.ERIE 234-Y | 6342 | 162 |
| CARTIER #2 ENNISKILLEN 1-7-XII | 6049 | 194 |
| CONS ET AL 33645 RALEIGH 2-10-V | 6393 | 171 |
| CONS ET AL 33683 MERSEA 1-15-B | 6369 | 109 |
| CONS ET AL 33684 MERSEA 8-14-A | 6389 | 111 |
| CONS OEC 33662 YARMOUTH 1-9-I | 6403 | 95 |
| CONS/DOW 33580 ENNISKILLEN 2-13-XIII | 6064 | 196 |
| CONSUMERS 13787 L.ERIE 152-E | 6155 | 260 |
| CONSUMERS 13798 L.ERIE 153-S | 6152 | 275 |
| CONSUMERS 13813 L.ERIE 182-V | 6156 | 91 |
| CONSUMERS 13814 L.ERIE 185-S | 6157 | 94 |
| CONSUMERS 13815 L.ERIE 185-K | 6158 | 93 |
| CONSUMERS 13816 L.ERIE 186-J | 6159 | 92 |
| CONSUMERS 13817 L.ERIE 187-A | 6150 | 261 |
| CONSUMERS 13818 L.ERIE 189-E | 6161 | 279 |
| CONSUMERS 13819 L.ERIE 122-P | 6153 | 89 |
| CONSUMERS 13820 L.ERIE 122-S | 6154 | 258 |
| CONSUMERS 13821 L.ERIE 123-W | 6162 | 264 |
| CONSUMERS 13822 L.ERIE 153-G | 6174 | 274 |
| CONSUMERS 13823 L.ERIE 124-B | 6163 | 265 |
| CONSUMERS 13824 L.ERIE 125-J | 6173 | 268 |
| CONSUMERS 13825 L.ERIE 126-A | 6172 | 259 |
| CONSUMERS 13826 L.ERIE 123-Q | 6164 | 262 |
| CONSUMERS 13827 L.ERIE 96-T | 6233 | 287 |
| CONSUMERS 13829 L.ERIE 95-N | 6232 | 285 |
| CONSUMERS 13830 L.ERIE 95-L | 6231 | 284 |
| CONSUMERS 13831 L.ERIE 156-N | 6230 | 90 |
| CONSUMERS 13832 L.ERIE 124-D | 6229 | 266 |
| CONSUMERS 13836 L.ERIE 126-Q | 6171 | 269 |
| CONSUMERS 13837 L.ERIE 126-S | 6170 | 270 |
| CONSUMERS 13838 L.ERIE 95-S | 6228 | 286 |
| CONSUMERS 13838 L.ERIE 151-I | 6168 | 272 |
| CONSUMERS 13839 L.ERIE 150-F | 6169 | 271 |
| CONSUMERS 13841 L.ERIE 51-P | 6166 | 273 |
| CONSUMERS 13843 L.ERIE 124-J | 6333 | 267 |
| CONSUMERS 13844 L.ERIE 123-U | 6334 | 263 |
| CONSUMERS 13845 L.ERIE 154-G | 6336 | 276 |
| CONSUMERS 13846 L.ERIE 156-O | 6337 | 278 |
| CONSUMERS 13847 L.ERIE 155-G | 6335 | 277 |
| CONSUMERS 33556 ORFORD 8-4-SMR | 6065 | 170 |
| CONSUMERS 33631 MERSEA 8-15-II | 6199 | 112 |
| CONSUMERS 40000 TILBURY E. 5-3-IX | 6096 | 175 |
| CONSUMERS 40001 TILBURY E. 5-4-IX | 6097 | 176 |
| CONSUMERS 40002 TILBURY E. 7-3-IX | 6105 | 178 |
| CONSUMERS 40003 TILBURY E. 3-3-IX | 6104 | 172 |
| CONSUMERS 40004 TILBURY E. 6-3-IX | 6114 | 177 |
| CONSUMERS 40005 TILBURY E. 4-3-IX | 6110 | 173 |
| CONSUMERS 40006 TILBURY E. 4-4-IX | 6113 | 174 |
| CONSUMERS 40007 TILBURY E. 8-4-IX | 6111 | 180 |
| CONSUMERS 40008 TILBURY E. 8-3-IX | 6112 | 179 |
| CWP ET AL DOVER #4 L.ERIE 46-U | 6234 | 282 |
| CWP ET AL DOVER L.ERIE 46-F-2 | 6235 | 280 |
| CWP ET AL DOVER L.ERIE 46-S-2 | 6237 | 281 |
| CWP ET AL DOVER L.ERIE 46-H-3A | 6236 | 117 |
| DEVRAN 4 WARWICK 1-7-26-V SER | 6422 | 223 |
| DEVRAN 5 WARWICK 1-5-26-V SER | 6423 | 222 |
| DEVRAN 8 WARWICK 2-3-28-V SER | 6421 | 224 |
| DOW #75 MOORE 23-XII | 6262 | 213 |
| DOW ENNISKILLEN 3-29-VIII | 6377 | 201 |
| DOW ET AL MOORE 8-23-V | 6347 | 216 |
| DOW HOWARD 2-10-XI | 6278 | 157 |
| DOW HOWARD 4-6-VIII | 6048 | 158 |
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COUNTY:ALGOMA TWP:JOCELYN BLOCK: TRACT: LOT:67 CON:A

WELL NAME:OGS 83-6 JOCELYN 67-A PERMIT NO.:6311 INITIAL CLASS:OTH
OPERATOR :ONTARIO GEOLOGICAL SURVEY TARGET SYS:PRE CURRENT STAT.:STRAT

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:190.9
BOT: LOG :348.0
ROTRY TOP:0.9 DRILLER:345.0
BOT:349.9 DEEPEND:
DRLG FLD :WATER PLUGBK :

**DATES**

PERMIT:19830816
START :19830807
COMPTD:19830821
OFFCNF:19840821
WRKOVR:
ABNDND:19830821

**COORDINATES**

NORTH:189.0
SOUTH:
EAST :
WEST :50.2
LAT :
LONG :

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:43.5 - 349.5 NO. BOTTLES:613
TRAY NUMBERS :6496-6497-6498
MISSNG INTERVAL:

**GENERAL COMMENTS**

BLUE MOUNTAIN 43.3

GEOLOGY BY:G.M. CARD

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 173.6 | 176.7 | | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 254.0 | 259.9 | | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTIN DEPT | ..... METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 67.0 | | 6 | CEM | | 0.0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 10.0 | 347.0 | CNL | SCHLUMBERGER |
| 10.0 | 347.0 | TDT | SCHLUMBERGER |
| 60.0 | 346.3 | IES | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|
| 43.3 | 349.9 | CC2 | COM | | N |

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.9 | 190.00 |
| COBOURG | 157.0 | 33.90 |
| SHADOW LAKE | 254.8 | -63.90 |
| CAMBRIAN | 258.72 | -67.82 |
| PRECAMBRIAN | 328.96 | -138.0 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:COCHRANE TWP: BLOCK: TRACT: LOT: CON:

WELL NAME:OGS 83-8 COCHRANE PERMIT NO.:6359 INITIAL CLASS:OTH
OPERATOR :ONTARIO GEOLOGICAL SURVEY TARGET SYS:PRE CURRENT STAT.:STRAT-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:178.3
BOT: LOG :346.4
ROTRY TOP:0.0 DRILLER:351.1
BOT:624.5 DEEPEND:
DRLG FLD :BENTONITIC PLUGBK :

**DATES**

PERMIT:19830923
START :19830921
COMPTD:19831022
OFFCNF:19841022
WRKOVR:
ABNDND:19831123

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :50 33 22
LONG :82 58 18

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m³/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL: - NO. BOTTLES:
TRAY NUMBERS :
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m³/d) | DENSITY (kg/m³) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CA3 RECOV (m) |
|---|---|---|---|---|---|
| | 10.4 | | SHO | | |
| 146.0 | 73.0 | | CEM | | 73.0 |
| 88.9 | 168.0 | | SHO | | 168.0 |
| 66.7 | 352.0 | | SHO | | 352.0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 45.0 | 344.0 | GRNL | BPB |
| 167.8 | 342.0 | IES | BPB |
| 0.0 | 344.0 | GRFD | BPB |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. | BOXES | ANAL |
|---|---|---|---|---|---|---|
| 11.95 | 125.0 | CCF | | | | Y |
| 125.0 | 351.4 | CCF | | | | Y |
| 351.5 | 624.5 | CC2 | | | | Y |

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| PRECAMBRIAN | 587.6 | -409.3 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:DURHAM TWP:PICKERING BLOCK: TRACT: LOT:18 CON:III BF

WELL NAME:OGS 83-3 PICKERING 18-III BF PERMIT NO.:6124 INITIAL CLASS:OTH
OPERATOR :ONTARIO GEOLOGICAL SURVEY TARGET SYS:PRE CURRENT STAT.:OBSR

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:89.7
BOT: LOG :
ROTRY TOP:1.5 DRILLER:
BOT:251.5 DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830224
START :19830304
COMPTD:19830313
OFFCNF:19840313
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:46.6
SOUTH:
EAST :191.8
WEST :
LAT :43 49 00
LONG :79 03 29

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH... TOP | ELEV |
|---|---|---|
| DRIFT | 1.5 | 88.20 |
| COBOURG | 46.5 | 43.20 |
| GULL RIVER | 195.3 | -105.6 |
| SHADOW LAKE | 227.8 | -138.1 |
| PRECAMBRIAN | 235.0 | -145.3 |

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL: - NO. BOTTLES:
TRAY NUMBERS :
MISSNG INTERVAL:

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 89 | | 30.8 | CEM | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0 | 252.0 | DIFS | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|
| 24.7 | 251.5 | CC2 | COM | | N |

COUNTY:ELGIN TWP:DORCHESTER S. BLOCK: TRACT:8 LOT:7 CON:VII

WELL NAME:C.S. ET AL DORCHESTER S. 8-7-VII PERMIT NO.:6277 INITIAL CLASS:NPW
OPERATOR :CANADA-CITIES SERVICE LTD. TARGET SYS:CAM CURRENT STAT.:SW-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:271.2
BOT: LOG :1069.7
ROTRY TOP:2.0 DRILLER:1068.0
BOT:1068.0 DEEPEND:
DRLG FLD :SALT WATER PLUGBK :

**DATES**

PERMIT:19830704
START :19830713
COMPTD:19830718
OFFCNF:19840720
WRKOVR:
ABNDND:19830720

**COORDINATES**

NORTH:172.0
SOUTH:
EAST :
WEST :87.0
LAT :42 53 34
LONG :80 57 13

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:84.0 - 1068.0 NO. BOTTLES:316
TRAY NUMBERS :8283-8284
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 244 | 54 | 80.0 | CEM | 100 | 0 |
| 178 | 25 | 205.0 | CEM | 150 | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 204.0 | 1070.0 | DLLM | SCHLUMBERGER |
| 199.0 | 1069.0 | NGRS | SCHLUMBERGER |
| 171.0 | 1066.0 | SONL | SCHLUMBERGER |
| 204.0 | 1070.5 | CNFD | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. | BOXES | ANAL |
|---|---|---|---|---|---|---|
| 1038.0 | 1052.7 | CCF | PRL | 864 | 11 | Y |

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 2.0 | 269.20 |
| DUNDEE | 70.0 | 201.20 |
| AMHERSTBURG | 102.0 | 169.20 |
| BOIS BLANC | 162.0 | 109.20 |
| BASS ISLANDS | 183.0 | 88.20 |
| G SHALE | 198.0 | 73.20 |
| F SHALE | 207.0 | 64.20 |
| E CARBONATE | 236.4 | 34.80 |
| C SHALE | 269.0 | 2.20 |
| B MARKER | 276.2 | -5.00 |
| B ANHYDRITE | 289.7 | -18.50 |
| A2 CARBONATE | 300.0 | -28.80 |
| A2 ANHYDRITE | 309.4 | -38.20 |
| A1 CARBONATE | 312.4 | -41.20 |
| CUELPH | 324.0 | -52.80 |
| ROCHESTER | 393.4 | -122.2 |
| REYNALES | 407.5 | -136.3 |
| CABOT HEAD | 413.2 | -142.0 |
| MANITOULIN | 435.5 | -164.3 |
| QUEENSTON | 441.5 | -170.3 |
| COBOURG | 803.6 | -532.4 |
| VERULAM | 865.1 | -593.9 |
| KIRKFIELD | 912.3 | -641.1 |
| COBOCONK | 951.5 | -680.3 |
| GULL RIVER | 962.3 | -691.1 |
| SHADOW LAKE | 1040.2 | -769.0 |
| CAMBRIAN | 1042.0 | -770.8 |
| PRECAMBRIAN | 1053.8 | -782.6 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 1044.0 | | CAMBRIAN |

COUNTY:ELGIN TWP:LAKE ERIE BLOCK:122 TRACT:D LOT:122 CON:

WELL NAME:CONSUMERS 13819 L.ERIE 122-P PERMIT NO.:6153 INITIAL CLASS:DEV
OPERATOR :CONSUMERS GAS CO. LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.2
BOT: LOG :541.5
ROTRY TOP:27.0 DRILLER:541.0
BOT:541.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :536.0

**DATES**

PERMIT:19830325
START :19830620
COMPTD:19830623
OFFCNF:19830723
WRKOVR:19840625
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 26 19
LONG :80 44 55

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:Y
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:138.0 - 541.0 NO. BOTTLES:133
TRAY NUMBERS :1975
MISSNG INTERVAL:414.0-417.0

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 489.0 | 503.0 | 5.47 | 5437 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 27.0 | HAN | | 27.0 |
| 244 | 53.6 | 139.2 | CEM | 240 | 0 |
| 178 | 29.8 | 229.4 | CEM | 155 | 0 |
| 114 | 14.4 | 539.7 | CEM | 234 | 0 |
| 60 | 7.0 | 486.6 | HAN | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 25.0 | 542.0 | CNFD | SCHLUMBERGER |
| 235.0 | 542.0 | DLLM | SCHLUMBERGER |
| 481.0 | 513.0 | CMPL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.5 | 174.70 |
| DRIFT | 27.0 | 154.20 |
| HAMILTON | 123.4 | 57.80 |
| DUNDEE | 155.7 | 25.50 |
| AMHERSTBURG | 198.0 | -16.80 |
| BOIS BLANC | 215.6 | -34.40 |
| ORISKANY | 233.7 | -52.50 |
| BASS ISLANDS | 243.5 | -62.30 |
| G SHALE | 283.8 | -102.6 |
| F SHALE | 290.7 | -109.5 |
| E CARBONATE | 312.8 | -131.6 |
| C SHALE | 351.6 | -170.4 |
| B MARKER | 361.5 | -180.3 |
| B ANHYDRITE | 375.6 | -194.4 |
| A2 CARBONATE | 382.3 | -201.1 |
| A2 SHALE | 389.8 | -208.6 |
| A2 ANHYDRITE | 394.0 | -212.8 |
| A1 CARBONATE | 396.7 | -215.5 |
| GUELPH | 400.8 | -219.6 |
| ROCHESTER | 461.0 | -279.8 |
| REYNALES | 486.5 | -305.3 |
| THOROLD | 490.2 | -309.0 |
| GRIMSBY | 492.8 | -311.6 |
| CABOT HEAD | 502.4 | -321.2 |
| MANITOULIN | 527.0 | -345.8 |
| QUEENSTON | 532.3 | -351.1 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 489.0 | | REYNALES-CABOT HEAD |

COUNTY:ELGIN TWP:LAKE ERIE BLOCK:156 TRACT:N LOT: CON:

WELL NAME:CONSUMERS 13831 L.ERIE 156-N
OPERATOR :CONSUMERS GAS CO. LTD.

PERMIT NO.:6230 INITIAL CLASS:DEV
TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT
CABLE TOP:
BOT:
ROTRY TOP:28.0
BOT:586.5
DRLG FLD :POLYBRINE

DEPTHS.....
KB ELEV:181.1
LOG :585.5
DRILLER:586.0
DEEPEND:
PLUGBK :577.7

**DATES**

PERMIT:19830429
START :19830608
COMPTD:19830611
OFFCNF:19830711
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 22 04
LONG :80 48 58

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS:20.39 103m3/d PRESSURE:5721 kPa
OIL: m3/d
PRODUCING FORMATION:THOROLD-GRIMSBY
PRODUCING INTERVAL :538.8 - 543.8

**SAMPLES**

SAMPLE INTERVAL:111.0 - 585.0 NO. BOTTLES:158
TRAY NUMBERS :2095
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 537.0 | 544.0 | 20.390 | 5721 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 28.01 | HAN | | 28.01 |
| 244 | 53.6 | 109.9 | CEM | 179 | 0 |
| 178 | 29.8 | 239.4 | CEM | 159 | 0 |
| 114 | 14.4 | 585.7 | CEM | 253 | 0 |
| 60 | 7.0 | 533.0 | HAN | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 260.0 | 584.5 | DLLM | SCHLUMBERGER |
| 520.0 | 573.5 | CMPL | SCHLUMBERGER |
| 25.0 | 584.5 | CNFD | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.4 | 174.70 |
| DRIFT | 28.0 | 153.10 |
| KETTLE POINT | 109.4 | 71.70 |
| HAMILTON | 126.6 | 54.50 |
| DUNDEE | 182.3 | -1.20 |
| AMHERSTBURG | 214.4 | -33.30 |
| BOIS BLANC | 239.4 | -58.30 |
| ORISKANY | 256.6 | -75.50 |
| BASS ISLANDS | 267.7 | -86.60 |
| G SHALE | 308.3 | -127.2 |
| F SHALE | 316.2 | -135.1 |
| E CARBONATE | 339.8 | -158.7 |
| C SHALE | 377.7 | -196.6 |
| B MARKER | 387.0 | -205.9 |
| B ANHYDRITE | 400.0 | -218.9 |
| A2 CARBONATE | 405.4 | -224.3 |
| A2 SHALE | 415.4 | -234.3 |
| A2 ANHYDRITE | 416.5 | -235.4 |
| A1 CARBONATE | 418.0 | -236.9 |
| GUELPH | 422.6 | -241.5 |
| GOAT ISLAND | 456.4 | -275.3 |
| GASPORT | 482.0 | -300.9 |
| DECEW | 495.0 | -313.9 |
| ROCHESTER | 502.8 | -321.7 |
| REYNALES | 530.0 | -348.9 |
| THOROLD | 533.0 | -351.9 |
| GRIMSBY | 541.7 | -360.6 |
| CABOT HEAD | 546.4 | -365.3 |
| MANITOULIN | 568.7 | -387.6 |
| QUEENSTON | 575.4 | -394.3 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 537.0 | | THOROLD-GRIMSBY |

COUNTY:ELGIN TWP:LAKE ERIE BLOCK:182 TRACT:V LOT: CON:

WELL NAME:CONSUMERS 13813 L.ERIE 182-V PERMIT NO.:6156 INITIAL CLASS:DEV
OPERATOR :CONSUMERS GAS CO. LTD. TARGET SYS:CLI CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT
CABLE TOP:
BOT:
ROTRY TOP:29.2
BOT:644.0
DRLG FLD :

DEPTHS.....
KB ELEV:181.1
LOG :643.5
DRILLER:644.0
DEEPEND:
PLUGBK :

**DATES**

PERMIT:19830325
START :19830528
COMPTD:19830531
OFFCNF:19830630
WRKOVR:
ABNDND:19830531

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 15 46
LONG :81 08 03

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:102.0 - 644.0 NO. BOTTLES:180
TRAY NUMBERS :1987
MISSNG INTERVAL:630.0-633.0

**GENERAL COMMENTS**

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN TOP | INTRVL BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN TOP | INTRVL BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN TOP | INTRVL BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 29.2 | HAN | | 29.2 |
| 244 | 53.6 | 102.4 | CEM | 161 | 0 |
| 178 | 29.8 | 235.1 | CEM | 155 | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 240.0 | 640.0 | DIL | SCHLUMBERGER |
| 25.0 | 639.0 | CNFD | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.4 | 174.70 |
| DRIFT | 29.2 | 151.90 |
| KETTLE POINT | 101.5 | 79.60 |
| HAMILTON | 170.2 | 10.90 |
| DUNDEE | 220.3 | -39.20 |
| AMHERSTBURG | 254.7 | -73.60 |
| BOIS BLANC | 283.2 | -102.1 |
| ORISKANY | 295.5 | -114.4 |
| BASS ISLANDS | 299.5 | -118.4 |
| G SHALE | 349.0 | -167.9 |
| F SHALE | 357.0 | -175.9 |
| E CARBONATE | 380.8 | -199.7 |
| C SHALE | 419.6 | -238.5 |
| B MARKER | 431.6 | -250.5 |
| B ANHYDRITE | 445.2 | -264.1 |
| A2 CARBONATE | 451.3 | -270.2 |
| A2 ANHYDRITE | 464.9 | -283.8 |
| A1 CARBONATE | 466.6 | -285.5 |
| GUELPH | 474.5 | -293.4 |
| GOAT ISLAND | 558.6 | -377.5 |
| GASPORT | 566.4 | -385.3 |
| ROCHESTER | 572.6 | -391.5 |
| REYNALES | 590.3 | -409.2 |
| THOROLD | 594.3 | -413.2 |
| GRIMSBY | 597.6 | -416.5 |
| CABOT HEAD | 602.9 | -421.8 |
| MANITOULIN | 628.2 | -447.1 |
| QUEENSTON | 635.0 | -453.9 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:ELGIN TWP:LAKE ERIE BLOCK:186 TRACT:J LOT: CON:

WELL NAME:CONSUMERS 13816 L.ERIE 186-J PERMIT NO.:6159 INITIAL CLASS:DEV
OPERATOR :CONSUMERS GAS CO. LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.1
BOT: LOG :615.5
ROTRY TOP:28.3 DRILLER:615.0
BOT:615.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :605.0

**DATES**

PERMIT:19830325
START :19830612
COMPTD:19830615
OFFCNF:19830715
WRKOVR:19840623
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 18 37
LONG :80 45 46

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:Y
BPT RPTS:N

**COMPLETION DATA**

GAS:5.55 103m3/d PRESSURE:5730 kPa
OIL: m3/d
PRODUCING FORMATION:THOROLD-GRIMSBY
PRODUCING INTERVAL :562.4 - 573.0

**SAMPLES**

SAMPLE INTERVAL:102.0 - 615.0 NO. BOTTLES:170
TRAY NUMBERS :2087
MISSNG INTERVAL:312.0-315.0

**GENERAL COMMENTS**

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 559.0 | 573.5 | 5.55 | 5730 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 28.3 | HAN | | 28.3 |
| 244 | 54.0 | 102.4 | CEM | 162 | 0 |
| 178 | 29.8 | 242.1 | CEM | 160 | 0 |
| 114 | 14.4 | 613.7 | CEM | 262 | 0 |
| 60 | 7.0 | 557.2 | HAN | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 25.0 | 614.5 | CNFD | SCHLUMBERGER |
| 555.0 | 603.0 | CMPL | SCHLUMBERGER |
| 250.0 | 614.5 | DLLM | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.4 | 174.70 |
| DRIFT | 28.3 | 152.80 |
| KETTLE POINT | 102.0 | 79.10 |
| HAMILTON | 166.0 | 15.10 |
| DUNDEE | 219.0 | -37.90 |
| AMHERSTBURG | 259.5 | -78.40 |
| BOIS BLANC | 273.0 | -91.90 |
| ORISKANY | 290.4 | -109.3 |
| BASS ISLANDS | 298.3 | -117.2 |
| G SHALE | 331.5 | -150.4 |
| F SHALE | 339.4 | -158.3 |
| E CARBONATE | 367.0 | -185.9 |
| C SHALE | 400.8 | -219.7 |
| B MARKER | 409.4 | -228.3 |
| B ANHYDRITE | 422.5 | -241.4 |
| A2 CARBONATE | 427.8 | -246.7 |
| A2 ANHYDRITE | 430.5 | -249.4 |
| A1 CARBONATE | 434.2 | -253.1 |
| GUELPH | 443.8 | -262.7 |
| GOAT ISLAND | 514.5 | -333.4 |
| GASPORT | 521.4 | -340.3 |
| ROCHESTER | 543.2 | -362.1 |
| REYNALES | 556.6 | -375.5 |
| THOROLD | 561.0 | -379.9 |
| GRIMSBY | 567.2 | -386.1 |
| CABOT HEAD | 574.8 | -393.7 |
| MANITOULIN | 599.7 | -418.6 |
| QUEENSTON | 606.2 | -425.1 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 559.0 | | REYNALES-GRIMSBY |

COUNTY:ELGIN TWP:L.ERIE BLOCK:185 TRACT:K LOT: CON:

WELL NAME:CONSUMERS 13815 L.ERIE 185-K PERMIT NO.:6158 INITIAL CLASS:DEV
OPERATOR :CONSUMERS GAS CO. LTD. TARGET SYS:CLI CURRENT STAT.:GS-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.1
BOT: LOG :630.0
ROTRY TOP:28.5 DRILLER:630.0
BOT:630.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :

**DATES**

PERMIT:19830325
START :19830604
COMPTD:19830607
OFFCNF:19830707
WRKOVR:
ABNDND:19830608

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 17 40
LONG :80 50 47

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:

PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:93.0 - 630.0 NO. BOTTLES:175
TRAY NUMBERS :2140
MISSNG INTERVAL:294.0-297.0 , 375.0-378.0 ,
537.0-540.0 , 573.0-576.0

**GENERAL COMMENTS**

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN TOP | INTRVL BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 573.0 | 581.0 | 0.149 | 1090 | N |

**INITIAL OIL RECORD**

| PRODN TOP | INTRVL BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN TOP | INTRVL BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 28.5 | HAN | | 28.5 |
| 244 | 53.6 | 93.8 | CEM | 150 | 0 |
| 178 | 29.8 | 250.1 | CEM | 164 | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 29.0 | 629.0 | CNFD | SCHLUMBERGER |
| 265.5 | 630.0 | DLLM | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.4 | 174.70 |
| DRIFT | 28.5 | 152.60 |
| KETTLE POINT | 93.2 | 87.90 |
| HAMILTON | 179.4 | 1.70 |
| DUNDEE | 230.5 | -49.40 |
| LUCAS | 249.7 | -68.60 |
| AMHERSTBURG | 260.0 | -78.90 |
| BOIS BLANC | 290.0 | -108.9 |
| BASS ISLANDS | 301.4 | -120.3 |
| G SHALE | 344.7 | -163.6 |
| F SHALE | 352.7 | -171.6 |
| E CARBONATE | 376.2 | -195.1 |
| C SHALE | 413.8 | -232.7 |
| B MARKER | 424.2 | -243.1 |
| B ANHYDRITE | 438.2 | -257.1 |
| A2 CARBONATE | 444.0 | -262.9 |
| A2 ANHYDRITE | 446.5 | -265.4 |
| A1 CARBONATE | 452.6 | -271.5 |
| A1 ANHYDRITE | 456.2 | -275.1 |
| GUELPH | 458.0 | -276.9 |
| DECEW | 533.3 | -352.2 |
| ROCHESTER | 556.2 | -375.1 |
| REYNALES | 569.5 | -388.4 |
| THOROLD | 572.6 | -391.5 |
| GRIMSBY | 576.6 | -395.5 |
| CABOT HEAD | 586.2 | -405.1 |
| MANITOULIN | 612.9 | -431.8 |
| QUEENSTON | 617.8 | -436.7 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 573.0 | | THOROLD-GRIMSBY |

COUNTY:ELGIN TWP:L.ERIE BLOCK:185 TRACT:S LOT: CON:

WELL NAME:CONSUMERS 13814 L.ERIE 185-S PERMIT NO.:6157 INITIAL CLASS:DEV
OPERATOR :CONSUMERS GAS CO. LTD. TARGET SYS:CLI CURRENT STAT.:GS-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.0
BOT: LOG :640.0
ROTRY TOP:28.6 DRILLER:639.0
BOT:639.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :

**DATES**

PERMIT:19830325
START :19830601
COMPTD:19830603
OFFCNF:19830703
WRKOVR:
ABNDND:19830604

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 16 44
LONG :80 51 52

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:

PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:104.0 - 642.0 NO. BOTTLES:176
TRAY NUMBERS :2070
MISSNG INTERVAL:207.0-210.0 , 255.0-258.0 , 591.0-594.0

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 583.0 | 593.2 | 0.149 | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 28.6 | HAN | | 28.6 |
| 244 | 53.6 | 106.7 | CEM | 171 | 0 |
| 178 | 29.8 | 258.2 | CEM | 169 | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 21.5 | 632.0 | CNFD | SCHLUMBERGER |
| 259.0 | 639.0 | DLLM | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.3 | 174.70 |
| DRIFT | 28.6 | 152.40 |
| KETTLE POINT | 93.2 | 87.80 |
| HAMILTON | 188.9 | -7.90 |
| DUNDEE | 240.2 | -59.20 |
| AMHERSTBURG | 269.5 | -88.50 |
| BOIS BLANC | 298.4 | -117.4 |
| BASS ISLANDS | 311.5 | -130.5 |
| G SHALE | 342.6 | -161.6 |
| F SHALE | 350.0 | -169.0 |
| E CARBONATE | 368.2 | -187.2 |
| C SHALE | 411.4 | -230.4 |
| B MARKER | 434.8 | -253.8 |
| B ANHYDRITE | 451.8 | -270.8 |
| A2 CARBONATE | 457.4 | -276.4 |
| A2 ANHYDRITE | 469.8 | -288.8 |
| A1 CARBONATE | 471.7 | -290.7 |
| GUELPH | 475.0 | -294.0 |
| DECEW | 545.7 | -364.7 |
| ROCHESTER | 563.0 | -382.0 |
| REYNALES | 580.8 | -399.8 |
| THOROLD | 584.0 | -403.0 |
| GRIMSBY | 587.7 | -406.7 |
| CABOT HEAD | 597.4 | -416.4 |
| MANITOULIN | 620.7 | -439.7 |
| QUEENSTON | 623.6 | -447.6 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 583.0 | | REYNALES-GRIMSBY |

COUNTY:ELGIN TWP:YARMOUTH BLOCK: TRACT:1 LOT:9 CON:I

WELL NAME:CONS OEC 33662 YARMOUTH 1-9-I PERMIT NO.:6403 INITIAL CLASS:NPW
OPERATOR :THE CONSUMERS GAS CO. LTD. TARGET SYS:CAM CURRENT STAT.:OP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:215.0
BOT: LOG :1161.0
ROTRY TOP:2.0 DRILLER:1162.0
BOT:1162.0 DEEPEND:
DRLG FLD :SALT BRINE PLUGBK :1150.0

**DATES**

PERMIT:19831115
START :19831123
COMPTD:19831129
OFFCNF:19841129
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:278.3
EAST :
WEST :150.0
LAT :42 40 19
LONG :81 09 54

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:Y
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:111.0 - 1162.0 NO. BOTTLES:337
TRAY NUMBERS :8578-79
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN TOP | INTRVL BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN TOP | INTRVL BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|
| 1105.5 | 1128.0 | SHOW | | N |

**INITIAL WATER RECORD**

| PRODN TOP | INTRVL BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 1128.0 | 1147.0 | | SAL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 244.0 | 54.0 | 107.3 | CEM | 175 | |
| 178.0 | 30.0 | 319.6 | CEM | 60 | |
| 114.0 | 14.0 | 1161.4 | CEM | 312 | |
| 60.3 | 7.0 | 1113.6 | HAN | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 10.0 | 1149.0 | TMPL | SCHLUMBERGER |
| 325.0 | 1155.0 | LATL | SCHLUMBERGER |
| 315.0 | 1155.0 | CNL | SCHLUMBERGER |
| 800.0 | 1155.0 | NGRS | SCHLUMBERGER |
| 1050.0 | 1150.0 | GRNL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 2.0 | 213.00 |
| DUNDEE | 101.0 | 114.00 |
| LUCAS | 124.0 | 91.00 |
| AMHERSTBURG | 144.0 | 71.00 |
| BOIS BLANC | 174.0 | 41.00 |
| BASS ISLANDS | 225.5 | -10.50 |
| G SHALE | 245.5 | -30.50 |
| F SHALE | 253.9 | -38.90 |
| E CARBONATE | 289.0 | -74.00 |
| C SHALE | 317.5 | -102.5 |
| B MARKER | 322.0 | -107.0 |
| A2 CARBONATE | 346.0 | -131.0 |
| A2 ANHYDRITE | 352.0 | -137.0 |
| A1 CARBONATE | 364.4 | -149.4 |
| A1 ANHYDRITE | 374.4 | -159.4 |
| GUELPH | 375.8 | -160.8 |
| GOAT ISLAND | 418.0 | -203.0 |
| GASPORT | 442.0 | -227.0 |
| DECEW | 448.0 | -233.0 |
| REYNALES | 463.0 | -248.0 |
| CABOT HEAD | 467.4 | -252.4 |
| MANITOULIN | 490.8 | -275.8 |
| WHIRLPOOL | 501.0 | -286.0 |
| QUEENSTON | 502.3 | -287.3 |
| COBOURG | 865.0 | -650.0 |
| VERULAM | 882.2 | -667.2 |
| KIRKFIELD | 937.2 | -722.2 |
| COBOCONK | 991.0 | -776.0 |
| GULL RIVER | 1019.7 | -804.7 |
| SHADOW LAKE | 1090.0 | -875.0 |
| CAMBRIAN | 1105.5 | -890.5 |
| PRECAMBRIAN | 1132.0 | -917.0 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:ELGIN TWP:YARMOUTH BLOCK: TRACT:3 LOT:9 CON:I

WELL NAME:OGS 82-3 YARMOUTH 9-I PERMIT NO.:6078 INITIAL CLASS:OTH
OPERATOR :ONTARIO GEOLOGICAL SURVEY TARGET SYS:PRE CURRENT STAT.:STRAT

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:213.5
BOT: LOG :1168.5
ROTRY TOP:2.1 DRILLER:1165.1
BOT:1165.1 DEEPEND:
DRLG FLD :SALT PLUGBK :

**DATES**

PERMIT:19821209
START :19830120
COMPTD:19830311
OFFCNF:19840311
WRKOVR:
ABNDND:19830315

**COORDINATES**

NORTH:
SOUTH:400.0
EAST :125.0
WEST :
LAT :42 40 13
LONG :81 09 47

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:79.8 - 1145.1 NO. BOTTLES:2126
TRAY NUMBERS :9341-9351
MISSNG INTERVAL:733.5-736.5

**GENERAL COMMENTS**

**GEOLOGY BY:ROBERT TREVAIL**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 225 | | | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 106.0 | 137.0 | SHOW | | N |
| 370.0 | 420.6 | SHOW | | N |
| 1125.0 | 1135.0 | SHOW | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 122.0 | | | SUL | N | |
| 372.0 | | | SAL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 149 | | | SHO | | |
| 149 | | 97.0 | CEM | | 0 |
| 88 | | 518.0 | CEM | | 418.0 |
| 88 | | 627.0 | | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 97.0 | 500.0 | CNFD | SCHLUMBERGER |
| 518.0 | 1167.5 | IES | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. | BOXES | ANAL |
|---|---|---|---|---|---|---|
| 79.9 | 1168.5 | SC2 | PRL | 861 | 570 | Y |

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 2.1 | 211.40 |
| MARCELLUS | 80.5 | 133.00 |
| DUNDEE | 100.0 | 113.50 |
| LUCAS | 132.2 | 81.30 |
| AMHERSTBURG | 153.0 | 60.20 |
| BOIS BLANC | 190.5 | 23.40 |
| SPRINGVALE | 225.4 | -11.90 |
| BASS ISLANDS | 226.6 | -13.10 |
| G SHALE | 246.8 | -33.30 |
| F SHALE | 255.3 | -41.80 |
| E CARBONATE | 281.4 | -67.90 |
| C SHALE | 318.5 | -105.0 |
| B MARKER | 325.8 | -112.3 |
| B ANHYDRITE | 350.0 | -136.5 |
| A2 CARBONATE | 352.2 | -138.7 |
| A2 SHALE | 360.1 | -146.6 |
| A2 ANHYDRITE | 362.2 | -148.7 |
| A1 CARBONATE | 365.0 | -151.5 |
| GUELPH | 378.0 | -164.5 |
| ROCHESTER | 449.4 | -235.9 |
| REYNALES | 465.5 | -252.0 |
| CABOT HEAD | 469.0 | -255.5 |
| MANITOULIN | 496.3 | -282.8 |
| QUEENSTON | 503.8 | -290.3 |
| COBOURG | 361.5 | -148.0 |
| COBOCONK | 996.1 | -782.6 |
| SHADOW LAKE | 1100.2 | -886.7 |
| CAMBRIAN | 1108.2 | -894.7 |
| PRECAMBRIAN | 1145.0 | -931.5 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:ESSEX TWP:ANDERDON BLOCK: TRACT: LOT:29 CON:I

WELL NAME:ALLIED CHEMICAL #12 PERMIT NO.:5914 INITIAL CLASS:OTH
OPERATOR :ALLIED CHAMICAL CANADA LTD. TARGET SYS:SAL CURRENT STAT.:OBSR

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:1.2 KB ELEV:177.0
BOT:362.0 LOG :383.3
ROTRY TOP: DRILLER:363.3
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19820709
START :19820728
COMPTD:19830531
OFFCNF:19840531
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:67.4
SOUTH:
EAST :
WEST :11.4
LAT :42 09 49
LONG :83 05 56

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.2 | 175.80 |

**DST RECORDS**

DST INTERVAL
TOP BOT FORMATION

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL: - NO. BOTTLES:
TRAY NUMBERS :
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 168 | | 360.9 | PAC | | |
| 219 | | 309.4 | PAC | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 293.0 | 363.3 | DENL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. | BOXES | ANAL |
|---|---|---|---|---|---|---|

COUNTY:ESSEX TWP:ANDERDON BLOCK: TRACT: LOT:35 CON:I

WELL NAME:ALLIED ANDERDON G-1 PERMIT NO.:6006 INITIAL CLASS:OTH
OPERATOR :ALLIED CHEMICAL CANADA LIMITED TARGET SYS:SAL CURRENT STAT.:BRINE

**DRILLING**

CONTRACTOR:
RIG TYPE :CABLE DEPTHS.....
CABLE TOP:1.2 KB ELEV:177.6
BOT:376.0 LOG :376.0
ROTRY TOP: DRILLER:368.8
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19820914
START :19820908
COMPTD:19830311
OFFCNF:19840311
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:131.7
SOUTH:
EAST :
WEST :712.5
LAT :42 10 26
LONG :83 05 34

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:

PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:0 - 376.1 NO. BOTTLES:117
TRAY NUMBERS :1848
MISSNG INTERVAL:59.4-66.4,69.5-72.5,74.7-81.7,85.3-88.4,96.9-100.0

**GENERAL COMMENTS**

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 273 | 60.3 | 18.9 | SHO | | |
| 178 | 25.3 | 351.7 | CEM | 350 | |
| 114 | 14.1 | 345.9 | PAC | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0 | 368.7 | GRNL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.2 | 176.40 |
| AMHERSTBURG | 42.1 | 135.50 |
| SYLVANIA | 71.5 | 106.10 |
| BOIS BLANC | 94.5 | 83.10 |
| BASS ISLANDS | 129.8 | 47.80 |
| G SHALE | 185.2 | -7.60 |
| F SHALE | 196.6 | -19.00 |
| E CARBONATE | 225.2 | -47.60 |
| C SHALE | 273.4 | -95.80 |
| B MARKER | 293.2 | -115.6 |
| B SALT | 306.0 | -128.4 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:ESSEX TWP:ANDERDON BLOCK: TRACT: LOT:35 CON:I

WELL NAME:ALLIED ANDERDON G-2 PERMIT NO.:6007 INITIAL CLASS:OTH
OPERATOR :ALLIED CHEMICAL CANADA LIMITED TARGET SYS:SAL CURRENT STAT.:BRINE

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:1.2 KB ELEV:176.6
BOT:373.7 LOG :373.7
ROTRY TOP: DRILLER:374.9
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:
START :19830315
COMPTD:19830504
OFFCNF:19840504
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:131.7
SOUTH:
EAST :
WEST :621.3
LAT :42 10 26
LONG :83 05 30

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:143.6 - 373.7 NO. BOTTLES:92
TRAY NUMBERS :2008
MISSNG INTERVAL:187.8-189.0

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN TOP | INTRVL BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN TOP | INTRVL BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN TOP | INTRVL BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 18.0 | 21.3 | 2.1 | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 273 | 60.3 | 18.0 | SHO | | 0 |
| 178 | 25.3 | 350.5 | CEM | 350 | 0 |
| 114 | 14.1 | 345.9 | PAC | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0.6 | 371.2 | GRNL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.2 | 175.40 |
| AMHERSTBURG | 41.8 | 134.80 |
| BOIS BLANC | 93.9 | 82.70 |
| BASS ISLANDS | 129.5 | 47.10 |
| G SHALE | 185.6 | -9.00 |
| F SHALE | 196.9 | -20.30 |
| E CARBONATE | 225.2 | -48.60 |
| C SHALE | 272.5 | -95.90 |
| B MARKER | 294.0 | -117.4 |
| B SALT | 306.9 | -130.3 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:ESSEX TWP:COLCHESTER S. BLOCK: TRACT: LOT:79 CON:I

WELL NAME:IMP HARV SUB COLCHESTER S. #7A 79-I PERMIT NO.:6058 INITIAL CLASS:DEV
OPERATOR :GAISWINKLER ENTERPRISES LIMITED TARGET SYS:ORD CURRENT STAT.:OP

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:0.5 KB ELEV:180.6
BOT:748.0 LOG :670.6
ROTRY TOP: DRILLER:750.4
BOT: DEEPEND:
DRLG FLD : PLUGBK :670.6

**DATES**

PERMIT:19821119
START :19830103
COMPTD:19830314
OFFCNF:19830414
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:205.7
EAST :40.5
WEST :
LAT :41 59 56
LONG :82 57 24

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | DEPTH TOP | DEPTH ELEV |
|---|---|---|

**DST RECORDS**

| DST INTERVAL TOP | DST INTERVAL BOT | FORMATION |
|---|---|---|

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL :636.4 - 658.7

**SAMPLES**

SAMPLE INTERVAL: - NO. BOTTLES:
TRAY NUMBERS :
MISSNG INTERVAL:

**GENERAL COMMENTS**

RE-ENTRY, SEE ORIGINAL TICKET FOR PICKS

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | PRODN INTRVL BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | PRODN INTRVL BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 649.5 | 653.5 | | | |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | PRODN INTRVL BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 340 | 21.8 | 34.8 | CEM | | 0 |
| 219 | 14.7 | 126.2 | CEM | | 0 |
| 140 | 7.0 | 685.8 | CEM | | 0 |

**LOGGING RECORD**

| LOGGED..... LOG TOP | LOG BOT | TYPE | LOGGING COMPANY |
|---|---|---|---|
| 613.6 | 680.6 | CMPL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | CORED..... BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|
| 636.9 | 748.0 | | | | |

COUNTY:ESSEX TWP:LAKE ERIE BLOCK:376 TRACT:J LOT: CON:

WELL NAME:PEMBINA #1 L.ERIE 376-J PERMIT NO.:6284 INITIAL CLASS:NPW
OPERATOR :PEMBINA EXPLORATION CO. LTD. TARGET SYS:CLI CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.1
BOT: LOG :448.0
ROTRY TOP:18.8 DRILLER:448.6
BOT:448.5 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :

**DATES**

PERMIT:19830704
START :19830725
COMPTD:19830730
OFFCNF:19840730
WRKOVR:
ABNDND:19830801

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :41 48 43
LONG :82 30 23

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:49.0 - 447.0 NO. BOTTLES:133
TRAY NUMBERS :1919
MISSNG INTERVAL:

**GENERAL COMMENTS**

1. D EQUIVALENT 235.0 2. B EQUIVALENT 257.3

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN TOP | PRODN BOT | INTRVL FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 284.0 | | | | N |
| 442.0 | | | | N |

**INITIAL OIL RECORD**

| PRODN TOP | PRODN BOT | INTRVL FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN TOP | PRODN BOT | INTRVL STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 301.0 | 315.0 | 55.0 | SAL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 273.0 | 75.7 | 45.9 | CEM | 62.5 | |
| 193.0 | 29.3 | 168.9 | CEM | 113 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 18.0 | 444.0 | SONL | SCHLUMBERGER |
| 175.5 | 444.5 | LATL | SCHLUMBERGER |
| 18.0 | 451.0 | CNFD | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| KE LEVEL | 6.4 | 174.70 |
| DRIFT | 18.8 | 162.30 |
| DUNDEE | 27.8 | 153.30 |
| LUCAS | 57.8 | 123.30 |
| AMHERSTBURG | 77.5 | 103.60 |
| BOIS BLANC | 96.2 | 84.90 |
| BASS ISLANDS | 117.8 | 63.30 |
| G SHALE | 163.7 | 17.40 |
| F SHALE | 171.3 | 9.80 |
| E CARBONATE | 197.5 | -16.40 |
| C SHALE | 238.4 | -57.30 |
| B MARKER | 250.0 | -68.90 |
| B ANHYDRITE | 268.2 | -87.10 |
| A2 CARBONATE | 275.6 | -94.50 |
| A2 ANHYDRITE | 293.5 | -112.4 |
| A1 CARBONATE | 296.0 | -114.9 |
| GUELPH | 301.5 | -120.4 |
| GOAT ISLAND | 377.5 | -196.4 |
| GASPORT | 394.6 | -213.5 |
| ROCHESTER | 434.5 | -253.4 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 401.0 | | GUELPH |

COUNTY:ESSEX TWP:LAKE ERIE BLOCK:376 TRACT:L LOT: CON:

WELL NAME:PEMBINA #1 L.ERIE 376-L PERMIT NO.:6285 INITIAL CLASS:NPW
OPERATOR :PEMBINA EXPLORATION CO. LTD. TARGET SYS:CLI CURRENT STAT.:GS-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:180.7
BOT: LOG :439.2
ROTRY TOP:17.6 DRILLER:439.0
BOT:439.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :

**DATES**

PERMIT:19830704
START :19830726
COMPTD:19830731
OFFCNF:19840731
WRKOVR:
ABNDND:19830731

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :41 47 35
LONG :82 31 15

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:47.0 - 439.0 NO. BOTTLES:129
TRAY NUMBERS :2026
MISSNG INTERVAL:

**GENERAL COMMENTS**

1. D EQUIVALENT 225.2 2. B EQUIVALENT 254.3

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 149.0 | | | | N |
| 305.0 | 323.6 | | 3029 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 305.0 | 323.6 | | SAL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 339 | 71.4 | 44.3 | CEM | 75 | 0.0 |
| 193 | 39.3 | 161.9 | CEM | 125 | 0.0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 166.0 | 436.0 | LATL | SCHLUMBERGER |
| 152.0 | 435.5 | SONL | SCHLUMBERGER |
| 22.5 | 432.0 | CNFD | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.0 | 174.70 |
| DRIFT | 17.6 | 163.10 |
| LUCAS | 52.8 | 127.90 |
| AMHERSTBURG | 65.3 | 115.40 |
| BOIS BLANC | 84.5 | 96.20 |
| BASS ISLANDS | 109.5 | 71.20 |
| G SHALE | 146.6 | 34.10 |
| F SHALE | 154.5 | 26.20 |
| E CARBONATE | 186.4 | -5.70 |
| C SHALE | 230.0 | -49.30 |
| B MARKER | 248.3 | -67.60 |
| B ANHYDRITE | 269.2 | -88.50 |
| A2 CARBONATE | 278.4 | -97.70 |
| A2 ANHYDRITE | 296.6 | -115.9 |
| A1 CARBONATE | 298.7 | -118.0 |
| GUELPH | 308.5 | -127.8 |
| GOAT ISLAND | 367.5 | -186.8 |
| GASPORT | 404.6 | -223.9 |
| ROCHESTER | 422.5 | -241.8 |
| REYNALES | 429.0 | -248.3 |
| GRIMSBY | 432.9 | -252.2 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 305.0 | | GUELPH |

COUNTY:ESSEX TWP:L.ERIE BLOCK:289 TRACT:X LOT: CON:

WELL NAME:PEMBINA #3 L.ERIE 289-X PERMIT NO.:6282 INITIAL CLASS:EXT
OPERATOR :PEMBINA EXPLORATION CO. LTD. TARGET SYS:CLI CURRENT STAT.:GS-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:180.8
BOT: LOG :481.0
ROTRY TOP:15.6 DRILLER:481.0
BOT:481.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :

**DATES**

PERMIT:19830704
START :19830823
COMPTD:19830828
OFFCNF:19840828
WRKOVR:
ABNDND:19830829

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 00 28
LONG :82 28 55

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:41.0 - 481.0 NO. BOTTLES:145
TRAY NUMBERS :2159
MISSNG INTERVAL:360.0-363.0

**GENERAL COMMENTS**

B EQUIVALENT 270.0

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 256.5 | | | | N |
| 288.0 | | | | N |
| 309.0 | 323.0 | 0.33 | 2956 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 309.0 | 323.0 | | SAL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 340.0 | 71.4 | 38.4 | CEM | 75 | |
| 193.0 | 29.8 | 189.4 | CEM | 75 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 23.0 | 474.0 | CNFD | SCHLUMBERGER |
| 75.0 | 478.0 | SONL | SCHLUMBERGER |
| 87.0 | 478.0 | LATL | SCHLUMBERGER |
| 87.0 | 482.0 | DIPM | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. | BOXES | ANAL |
|---|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.1 | 174.70 |
| DRIFT | 15.6 | 165.20 |
| DUNDEE | 24.0 | 156.80 |
| LUCAS | 54.0 | 126.80 |
| AMHERSTBURG | 84.5 | 96.30 |
| BOIS BLANC | 111.0 | 69.80 |
| BASS ISLANDS | 134.4 | 46.40 |
| G SHALE | 177.8 | 3.00 |
| F SHALE | 185.3 | -4.50 |
| E CARBONATE | 210.5 | -29.70 |
| C SHALE | 249.5 | -68.70 |
| B MARKER | 264.3 | -83.50 |
| B ANHYDRITE | 279.7 | -98.90 |
| A2 CARBONATE | 286.8 | -106.0 |
| A2 ANHYDRITE | 303.2 | -122.4 |
| A1 CARBONATE | 305.0 | -124.2 |
| GUELPH | 313.0 | -132.2 |
| ROCHESTER | 464.8 | -284.0 |
| REYNALES | 470.8 | -290.0 |
| GRIMSBY | 475.6 | -294.8 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 309.0 | | GUELPH |

COUNTY:ESSEX TWP:L.ERIE BLOCK:308 TRACT:X LOT: CON:

WELL NAME:PEMBINA #1 L.ERIE 308-X PERMIT NO.:6280 INITIAL CLASS:DEV
OPERATOR :PEMBINA EXPLORATION CO.LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.1
BOT: LOG :483.7
ROTRY TOP:19.1 DRILLER:484.0
BOT:484.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :463.6

**DATES**

PERMIT:19830704
START :19830816
COMPTD:19830821
OFFCNF:19830921
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :41 55 49
LONG :82 28 13

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS:19.4 103m3/d PRESSURE:3073 kPa
OIL: m3/d
PRODUCING FORMATION:GUELPH
PRODUCING INTERVAL :314.0 - 322.0

**SAMPLES**

SAMPLE INTERVAL:57.0 - 483.0 NO. BOTTLES:143
TRAY NUMBERS :2097
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN TOP | INTRVL BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 295.0 | | | | N |
| 312.0 | 326.0 | 19.4 | 3073 | N |

**INITIAL OIL RECORD**

| PRODN TOP | INTRVL BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN TOP | INTRVL BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 273 | 48.7 | 54.8 | CEM | 75 | 0.0 |
| 193 | 29.8 | 200.3 | CEM | 150 | 0.0 |
| 114 | 14.1 | 477.7 | CEM | 225 | 0.0 |
| 60 | 6.0 | 310.5 | CEM | | 0.0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 22.0 | 476.0 | CNFD | SCHLUMBERGER |
| 182.0 | 480.0 | SONL | SCHLUMBERGER |
| 207.0 | 480.0 | LATL | SCHLUMBERGER |
| 247.8 | 464.0 | CMPL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.4 | 174.70 |
| DRIFT | 19.1 | 162.00 |
| DUNDEE | 34.3 | 146.80 |
| LUCAS | 66.4 | 114.70 |
| AMHERSTBURG | 91.6 | 89.50 |
| BOIS BLANC | 106.6 | 74.50 |
| SPRINGVALE | 140.9 | 40.20 |
| BASS ISLANDS | 143.8 | 37.30 |
| G SHALE | 171.6 | 9.50 |
| F SHALE | 190.5 | -9.40 |
| E CARBONATE | 214.8 | -33.70 |
| C SHALE | 254.8 | -73.70 |
| B MARKER | 267.5 | -86.40 |
| B ANHYDRITE | 283.3 | -102.2 |
| A2 CARBONATE | 288.9 | -107.8 |
| A2 ANHYDRITE | 306.1 | -125.0 |
| A1 CARBONATE | 307.8 | -126.7 |
| GUELPH | 312.4 | -131.3 |
| DECEW | 463.8 | -282.7 |
| ROCHESTER | 469.6 | -288.5 |
| REYNALES | 474.5 | -293.4 |
| GRIMSBY | 478.2 | -297.1 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 312.0 | | GUELPH |

COUNTY:ESSEX TWP:L.ERIE BLOCK:353 TRACT:E LOT: CON:

WELL NAME:PEMBINA #4 L.ERIE 353-E PERMIT NO.:6295 INITIAL CLASS:DEV
OPERATOR :PEMBINA EXPOLRATION CO. LTD. TARGET SYS:CLI CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.0
BOT: LOG :475.1
ROTRY TOP:16.6 DRILLER:475.0
BOT:475.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :

**DATES**

PERMIT:19830712
START :19830829
COMPTD:19830903
OFFCNF:19831003
WRKOVR:
ABNDND:19830904

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 54 21
LONG :80 29 22

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:51.0 - 477.0 NO. BOTTLES:141
TRAY NUMBERS :2089
MISSNG INTERVAL:144.0-147.0

**GENERAL COMMENTS**

1. B EQUIVALENT 278.5

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 320.0 | 333.5 | 50.0 | SAL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 273 | 48.7 | 48.7 | CEM | 75 | |
| 193 | 29.8 | 207.1 | CEM | 200 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 13.0 | 467.5 | CNFD | SCHLUMBERGER |
| 9.5 | 471.2 | LATL | SCHLUMBERGER |
| 171.0 | 471.5 | SONL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.3 | 174.70 |
| DRIFT | 16.6 | 164.40 |
| DUNDEE | 33.9 | 147.10 |
| LUCAS | 50.3 | 130.70 |
| AMHERSTBURG | 85.7 | 95.30 |
| BOIS BLANC | 106.3 | 74.70 |
| SPRINGVALE | 148.7 | 32.30 |
| BASS ISLANDS | 154.4 | 26.60 |
| G SHALE | 189.5 | -8.50 |
| F SHALE | 197.9 | -16.90 |
| E CARBONATE | 221.0 | -40.00 |
| C SHALE | 261.8 | -80.80 |
| B MARKER | 272.6 | -91.60 |
| B ANHYDRITE | 289.2 | -108.2 |
| A2 CARBONATE | 295.8 | -114.8 |
| A2 ANHYDRITE | 313.8 | -132.8 |
| A1 CARBONATE | 315.5 | -134.5 |
| GUELPH | 321.0 | -140.0 |
| ROCHESTER | 457.7 | -276.7 |
| REYNALES | 465.6 | -284.6 |
| GRIMSBY | 469.7 | -288.7 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 320.0 | | GUELPH |

COUNTY:ESSEX TWP:L.ERIE BLOCK:353 TRACT:N LOT: CON:

WELL NAME:PEMBINA #4 L.ERIE 353-N PERMIT NO.:6297 INITIAL CLASS:DEV
OPERATOR :PEMBINA EXPLORATION CO. LTD. TARGET SYS:CLI CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.1
BOT: LOG :490.5
ROTRY TOP:15.1 DRILLER:490.0
BOT:490.5 DEEPEND:
DRLG FLD :GEL BARITE PLUGBK :

**DATES**

PERMIT:19830712
START :19830807
COMPTD:19830814
OFFCNF:19830914
WRKOVR:
ABNDND:19830815

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :41 52 22
LONG :82 28 05

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:55.0 - 490.0 NO. BOTTLES:146
TRAY NUMBERS :1968
MISSNG INTERVAL:

**GENERAL COMMENTS**

1. B EQUIVALENT 268.6

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 308.0 | 315.0 | | 1788 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 273 | 48.7 | 52.0 | CEM | 75 | |
| 193 | 29.8 | 186.8 | CEM | 125 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 187.0 | 485.0 | LATL | SCHLUMBERGER |
| 181.0 | 486.0 | SONL | SCHLUMBERGER |
| 9.5 | 484.5 | CNFD | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.4 | 174.70 |
| DRIFT | 15.1 | 166.00 |
| LUCAS | 57.0 | 124.10 |
| AMHERSTBURG | 75.3 | 105.80 |
| BOIS BLANC | 101.5 | 79.60 |
| SPRINGVALE | 131.3 | 49.80 |
| BASS ISLANDS | 136.3 | 44.80 |
| G SHALE | 179.7 | 1.40 |
| F SHALE | 189.5 | -8.40 |
| E CARBONATE | 215.5 | -34.40 |
| C SHALE | 251.8 | -70.70 |
| B MARKER | 262.4 | -81.30 |
| B ANHYDRITE | 278.7 | -97.60 |
| A2 CARBONATE | 286.4 | -105.3 |
| A2 ANHYDRITE | 302.4 | -121.3 |
| A1 CARBONATE | 305.3 | -124.2 |
| GUELPH | 310.7 | -129.6 |
| GOAT ISLAND | 373.5 | -192.4 |
| GASPORT | 399.5 | -218.4 |
| ROCHESTER | 457.5 | -276.4 |
| REYNALES | 465.8 | -284.7 |
| GRIMSBY | 469.0 | -287.9 |
| CABOT HEAD | 469.8 | -288.7 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 308.0 | | GUELPH |
| 310.0 | | GUELPH |

COUNTY:ESSEX TWP:L.ERIE BLOCK:409 TRACT:P LOT: CON:

WELL NAME:PEMBINA #4 L.ERIE 409-P PERMIT NO.:6301 INITIAL CLASS:DEV
OPERATOR :PEMBINA EXPLORATION CO. LTD. TARGET SYS:CLI CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.0
BOT: LOG :459.8
ROTRY TOP:20.6 DRILLER:460.0
BOT:460.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :

**DATES**

PERMIT:19830712
START :19830823
COMPTD:19830828
OFFCNF:19830928
WRKOVR:
ABNDND:19830829

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :41 41 05
LONG :82 29 18

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:69.0 - 460.0 NO. BOTTLES:133
TRAY NUMBERS :4044
MISSNG INTERVAL:

**GENERAL COMMENTS**

GEOLOGY BY:GEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 50.0 | | SHOW | | N |
| 304.0 | | SHOW | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|
| 65.0 | 70.0 | SHOW | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 324.0 | 343.0 | 40.0 | SAL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273.0 | 48.7 | 67.1 | CEM | 100 | |
| 193.0 | 29.8 | 170.5 | CEM | 150 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 18.5 | 460.0 | CNFD | SCHLUMBERGER |
| 196.0 | 456.0 | DLL | SCHLUMBERGER |
| 17.0 | 450.0 | SONL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. | BOXES | ANAL |
|---|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.3 | 174.70 |
| DRIFT | 20.6 | 160.40 |
| AMHERSTBURG | 84.0 | 97.00 |
| BOIS BLANC | 107.0 | 74.00 |
| BASS ISLANDS | 133.4 | 47.60 |
| G SHALE | 184.5 | -3.50 |
| F SHALE | 196.3 | -15.30 |
| E CARBONATE | 211.5 | -30.50 |
| C SHALE | 262.0 | -81.00 |
| B MARKER | 272.2 | -91.20 |
| B ANHYDRITE | 292.4 | -111.4 |
| A2 CARBONATE | 301.9 | -120.9 |
| A2 ANHYDRITE | 318.1 | -137.1 |
| A1 CARBONATE | 320.2 | -139.2 |
| GUELPH | 329.2 | -148.2 |
| ROCHESTER | 443.7 | -262.7 |
| REYNALES | 449.7 | -268.7 |
| CABOT HEAD | 453.7 | -272.7 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 324.0 | | GUELPH |

COUNTY:ESSEX TWP:L.ERIE BLOCK:410 TRACT:E LOT: CON:

WELL NAME:PEMBINA #2 L.ERIE 410-E PERMIT NO.:6286 INITIAL CLASS:NPW
OPERATOR :PEMBINA EXPOLRATION CO. LTD. TARGET SYS:CLI CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.1
BOT: LOG :419.5
ROTRY TOP:18.5 DRILLER:419.0
BOT:419.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :

**DATES**

PERMIT:19830704
START :19830801
COMPTD:19830806
OFFCNF:19840806
WRKOVR:
ABNDND:19830806

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :41 44 32
LONG :82 34 50

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:39.0 - 418.0 NO. BOTTLES:128
TRAY NUMBERS :5590
MISSNG INTERVAL:135.0-138.0

**GENERAL COMMENTS**

1. FREE SULPHUR IN GOAT ISLAND 2. B EQUIVALENT 220.5

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|
| 266.0 | 285.0 | 37.0 | SAL | N |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 273 | 75.4 | 36.4 | CEM | 62.5 | |
| 193 | 39.3 | 145.8 | CEM | 112 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 147.0 | 414.0 | LATL | SCHLUMBERGER |
| 18.0 | 413.5 | SONL | SCHLUMBERGER |
| 142.0 | 412.0 | CNFD | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.4 | 174.70 |
| DRIFT | 18.5 | 162.60 |
| DUNDEE | 21.3 | 159.80 |
| LUCAS | 28.7 | 152.40 |
| AMHERSTBURG | 45.8 | 135.30 |
| BOIS BLANC | 74.0 | 107.10 |
| BASS ISLANDS | 89.5 | 91.60 |
| G SHALE | 126.5 | 54.60 |
| F SHALE | 135.8 | 45.30 |
| E CARBONATE | 164.0 | 17.10 |
| C SHALE | 198.5 | -17.40 |
| B MARKER | 212.0 | -30.90 |
| B ANHYDRITE | 230.0 | -48.90 |
| A2 CARBONATE | 237.6 | -56.50 |
| A2 ANHYDRITE | 256.3 | -75.20 |
| A1 CARBONATE | 260.2 | -79.10 |
| GUELPH | 270.0 | -88.90 |
| GOAT ISLAND | 324.5 | -143.4 |
| GASPORT | 357.0 | -175.9 |
| ROCHESTER | 405.3 | -224.2 |
| REYNALES | 412.2 | -231.1 |
| CABOT HEAD | 415.4 | -234.3 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 266.0 | | GUELPH |

COUNTY:ESSEX TWP:MERSEA BLOCK: TRACT:1 LOT:15 CON:B

WELL NAME:CONS ET AL 33683 MERSEA 1-15-B PERMIT NO.:6369 INITIAL CLASS:NPW
OPERATOR :THE CONSUMERS GAS CO. LTD. TARGET SYS:CAM CURRENT STAT.:OP-GS

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:178.4
BOT: LOG :1056.0
ROTRY TOP:1.8 DRILLER:1058.0
BOT:1058.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :

**DATES**

PERMIT:19831017
START :19831026
COMPTD:19831103
OFFCNF:19841103
WRKOVR:19840309
ABNDND:

**COORDINATES**

NORTH:
SOUTH:110.0
EAST :
WEST :110.0
LAT :42 01 02
LONG :82 32 14

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:COBOURG
PRODUCING INTERVAL :774.0 - 788.0

**SAMPLES**

SAMPLE INTERVAL:55.0 - 1058.0 NO. BOTTLES:333
TRAY NUMBERS :8688-89
MISSNG INTERVAL:478.0-481.0 , 946.0-949.0

**GENERAL COMMENTS**

CRUDE PETROLEUM ANALYSIS

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 300.0 | 328.0 | WEAK | | N |
| 774.0 | 788.0 | TSTM | 2450 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 774.0 | 788.0 | | | Y |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 142.0 | 155.0 | | SUL | N | |
| 337.0 | 370.0 | | SAL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 244 | 54.0 | 52.9 | CEM | 90 | |
| 178 | 29.8 | 466.0 | CEM | 300 | |
| 114 | 14.4 | 840.7 | CEM | 114 | |
| 60 | 7.0 | 787.7 | HAN | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 70.0 | 1057.0 | DLLM | SCHLUMBERGER |
| 745.0 | 1056.0 | NGRS | SCHLUMBERGER |
| 49.5 | 1052.0 | SONL | SCHLUMBERGER |
| 49.0 | 1052.0 | CNFD | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.8 | 176.60 |
| LUCAS | 58.4 | 120.00 |
| AMHERSTBURG | 65.6 | 112.80 |
| BOIS BLANC | 85.8 | 92.60 |
| BASS ISLANDS | 119.0 | 59.40 |
| G SHALE | 161.7 | 16.70 |
| F SHALE | 168.8 | 9.60 |
| E CARBONATE | 191.8 | -13.40 |
| C SHALE | 233.0 | -54.60 |
| B MARKER | 252.0 | -73.60 |
| B ANHYDRITE | 267.0 | -88.60 |
| A2 CARBONATE | 274.0 | -95.60 |
| A2 ANHYDRITE | 290.3 | -111.9 |
| A1 CARBONATE | 293.2 | -114.8 |
| GUELPH | 301.0 | -122.6 |
| WIARTON | 361.3 | -182.9 |
| ROCHESTER | 461.6 | -283.2 |
| REYNALES | 467.2 | -288.8 |
| CABOT HEAD | 471.6 | -293.2 |
| MANITOULIN | 509.7 | -331.3 |
| QUEENSTON | 518.6 | -340.2 |
| COBOURG | 758.9 | -580.5 |
| VERULAM | 780.5 | -602.1 |
| KIRKFIELD | 825.0 | -646.6 |
| COBOCONK | 857.1 | -678.7 |
| GULL RIVER | 886.5 | -708.1 |
| SHADOW LAKE | 1001.7 | -823.3 |
| CAMBRIAN | 1010.3 | -831.9 |
| PRECAMBRIAN | 1056.5 | -878.1 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 300.0 | | GUELPH |
| 774.0 | | COBOURG |

COUNTY:ESSEX TWP:MERSEA BLOCK: TRACT:7 LOT:14 CON:VI

WELL NAME:PEMBINA ET AL MERSEA 7-14-VI
OPERATOR :PEMBINA EXPLORATION CO. LTD.
PERMIT NO.:6127 INITIAL CLASS:NPW
TARGET SYS:CAM CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROTARY
CABLE TOP:
BOT:
ROTRY TOP:1.8
BOT:1079.6
DRLG FLD :BRINE
DEPTHS.....
KB ELEV:187.8
LOG :1079.6
DRILLER:1080.0
DEEPEND:
PLUGBK :

**DATES**

PERMIT:19830311
START :19830422
COMPTD:19830428
OFFCNF:19840428
WRKOVR:
ABNDND:19830501

**COORDINATES**

NORTH:161.5
SOUTH:
EAST :161.5
WEST :
LAT :42 05 47
LONG :82 32 35

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:51.0 - 1080.0 NO. BOTTLES:337
TRAY NUMBERS :7822-7823
MISSNG INTERVAL:228.0-233.0, 591.0-605.0

**GENERAL COMMENTS**

BLUE MOUNTAIN 617.8

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 80.0 | | | SUL | N | |
| 148.0 | | | SUL | N | |
| 1027.0 | 1055.0 | 161.0 | SAL | Y | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 244 | 54 | 48 | CEM | | 0 |
| 178 | 25 | 486.1 | CEM | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 740.0 | 1081.0 | CBLK | SCHLUMBERGER |
| 184.0 | 1076.5 | LATL | SCHLUMBERGER |
| 481.0 | 1075.5 | NGRS | SCHLUMBERGER |
| 484.0 | 1076.5 | LATL | SCHLUMBERGER |
| 20.0 | 1076.5 | SONL | SCHLUMBERGER |
| 2.0 | 1075.5 | CNFD | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. | BOXES | ANAL |
|---|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.8 | 186.00 |
| DUNDEE | 31.3 | 156.50 |
| LUCAS | 49.5 | 138.30 |
| AMHERSTBURG | 91.0 | 96.80 |
| BOIS BLANC | 106.8 | 81.00 |
| BASS ISLANDS | 146.9 | 40.90 |
| G SHALE | 198.7 | -10.90 |
| F SHALE | 206.0 | -18.20 |
| E CARBONATE | 225.4 | -37.60 |
| C SHALE | 274.7 | -86.90 |
| B MARKER | 294.0 | -106.2 |
| B ANHYDRITE | 308.6 | -120.8 |
| A2 CARBONATE | 316.5 | -128.7 |
| A2 ANHYDRITE | 333.2 | -145.4 |
| A1 CARBONATE | 337.6 | -149.8 |
| GUELPH | 346.7 | -158.9 |
| GOAT ISLAND | 430.8 | -243.0 |
| GASPORT | 462.5 | -274.7 |
| ROCHESTER | 476.3 | -288.5 |
| REYNALES | 481.9 | -294.1 |
| GRIMSBY | 486.0 | -298.2 |
| CABOT HEAD | 489.5 | -301.7 |
| MANITOULIN | 524.3 | -336.5 |
| QUEENSTON | 534.0 | -346.2 |
| COBOURG | 768.3 | -580.5 |
| VERULAM | 800.8 | -613.0 |
| KIRKFIELD | 833.3 | -645.5 |
| COBOCONK | 872.6 | -684.8 |
| GULL RIVER | 882.8 | -695.0 |
| SHADOW LAKE | 1016.3 | -828.5 |
| CAMBRIAN | 1019.8 | -832.0 |
| PRECAMBRIAN | 1049.7 | -861.9 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 1027.0 | | CAMBRIAN |
| 764.0 | | BLUE MTN.-COBOURG |

COUNTY:ESSEX TWP:MERSEA BLOCK: TRACT:8 LOT:14 CON:A

WELL NAME:CONS ET AL 33684 MERSEA 8-14-A PERMIT NO.:6389 INITIAL CLASS:DEV
OPERATOR :THE CONSUMERS GAS CO. LTD. TARGET SYS:CAM CURRENT STAT.:OP-GS

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:178.8
BOT: LOG :1068.0
ROTRY TOP:1.8 DRILLER:1068.0
BOT:1068.0 DEEPEND:
DRLG FLD :SALT BRINE PLUGBK :

**DATES**

PERMIT:19831115
START :19831109
COMPTD:19831115
OFFCNF:19831215
WRKOVR:19840218
ABNDND:

**COORDINATES**

NORTH:107.0
SOUTH:
EAST :
WEST :107.0
LAT :42 01 11
LONG :82 32 39

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:COBOURG
PRODUCING INTERVAL :778.5 - 790.2

**SAMPLES**

SAMPLE INTERVAL:56.0 - 1068.0 NO. BOTTLES:337
TRAY NUMBERS :8694-95
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 775.0 | 798.0 | | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 69.0 | | | | N | |
| 145.0 | | | SUL | N | |
| 804.0 | | | SAL | N | |
| 1052.0 | | | SAL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 244 | 54.0 | 53.2 | CEM | 90 | |
| 178 | 29.8 | 470.3 | CEM | 101 | |
| 114 | 14.4 | 836.9 | CEM | 150 | |
| 60 | 7.0 | 786.4 | HAN | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 47.0 | 1057.0 | CNFD | SCHLUMBERGER |
| 409.0 | 1057.5 | NGRS | SCHLUMBERGER |
| 60.0 | 1066.0 | DLLM | SCHLUMBERGER |
| 446.5 | 1059.0 | SONL | SCHLUMBERGER |
| 725.0 | 820.0 | GRNL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| AMHERSTBURG | 65.2 | 113.60 |
| BOIS BLANC | 83.6 | 95.20 |
| BASS ISLANDS | 123.5 | 55.30 |
| G SHALE | 164.0 | 14.80 |
| F SHALE | 171.7 | 7.10 |
| E CARBONATE | 200.8 | -22.00 |
| C SHALE | 237.3 | -58.50 |
| B MARKER | 253.8 | -75.00 |
| B ANHYDRITE | 269.2 | -90.40 |
| A2 CARBONATE | 274.5 | -95.70 |
| A2 ANHYDRITE | 292.4 | -113.6 |
| A1 CARBONATE | 294.5 | -115.7 |
| A1 ANHYDRITE | 296.2 | -117.4 |
| GUELPH | 297.5 | -118.7 |
| ROCHESTER | 459.5 | -280.7 |
| REYNALES | 465.4 | -286.6 |
| CABOT HEAD | 469.0 | -290.2 |
| MANITOULIN | 508.1 | -329.3 |
| QUEENSTON | 518.4 | -339.6 |
| COBOURG | 763.9 | -585.1 |
| VERULAM | 785.5 | -606.7 |
| KIRKFIELD | 820.5 | -641.7 |
| COBOCONK | 856.0 | -677.2 |
| GULL RIVER | 883.8 | -705.0 |
| SHADOW LAKE | 996.5 | -817.7 |
| CAMBRIAN | 1007.0 | -828.2 |
| PRECAMBRIAN | 1052.0 | -873.2 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 775.0 | | TRENTON |
| 800.0 | | TRENTON |

COUNTY:ESSEX TWP:MERSEA BLOCK: TRACT:8 LOT:15 CON:II

WELL NAME:CONSUMERS 33631 MERSEA 8-15-II PERMIT NO.:6199 INITIAL CLASS:NPW
OPERATOR :CONSUMERS GAS CO. LTD. TARGET SYS:CLI CURRENT STAT.:GS-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:180.7
BOT: LOG :478.8
ROTRY TOP:1.8 DRILLER:480.0
BOT:480.0 DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830429
START :19830510
COMPTD:19830514
OFFCNF:19840514
WRKOVR:
ABNDND:19830515

**COORDINATES**

NORTH:107.0
SOUTH:
EAST :
WEST :195.0
LAT :42 01 57
LONG :82 32 14

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:41.0 - 482.0 NO. BOTTLES:147
TRAY NUMBERS :1809
MISSNG INTERVAL:

**GENERAL COMMENTS**

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 320.0 | 330.0 | | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 140.0 | | | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 178 | 30.0 | 218.4 | CEM | 150 | |
| 244 | 54.0 | 38.6 | CEM | 75 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 10.0 | 478.5 | CNFD | SCHLUMBERGER |
| 135.5 | 469.0 | SONL | SCHLUMBERGER |
| 215.5 | 478.5 | LATL | SCHLUMBERGER |
| 250.0 | 478.5 | CBLK | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.8 | 178.90 |
| DUNDEE | 19.7 | 161.00 |
| AMHERSTBURG | 63.7 | 117.00 |
| BOIS BLANC | 87.3 | 93.40 |
| BASS ISLANDS | 123.4 | 57.30 |
| G SHALE | 171.0 | 9.70 |
| F SHALE | 177.9 | 2.80 |
| E CARBONATE | 207.3 | -26.60 |
| C SHALE | 243.8 | -63.10 |
| B MARKER | 261.6 | -80.90 |
| B ANHYDRITE | 276.4 | -95.70 |
| A2 CARBONATE | 282.4 | -101.7 |
| A2 ANHYDRITE | 300.6 | -119.9 |
| A1 CARBONATE | 305.7 | -125.0 |
| GUELPH | 311.2 | -130.5 |
| GOAT ISLAND | 369.7 | -189.0 |
| GASPORT | 394.4 | -213.7 |
| ROCHESTER | 459.2 | -278.5 |
| REYNALES | 464.6 | -283.9 |
| CABOT HEAD | 468.7 | -288.0 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:ESSEX TWP:TILBURY W. BLOCK: TRACT:2 LOT:5 CON:XI

WELL NAME:BRETT GAGNIER 1 TILBURY W. 2-5-XI PERMIT NO.:6383 INITIAL CLASS:DEV
OPERATOR :H. BRETT & ASSOCIATES LTD. TARGET SYS:SAL CURRENT STAT.:OP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:187.7
BOT: LOG :359.4
ROTRY TOP:1.8 DRILLER:359.4
BOT:359.4 DEEPEND:
DRLG FLD :OIL PLUGBK :

**DATES**

PERMIT:19831219
START :19831028
COMPTD:19831215
OFFCNF:19840115
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:119.8
EAST :152.6
WEST :
LAT :42 10 51
LONG :82 34 08

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:GUELPH
PRODUCING INTERVAL :350.5 - 355.7

**SAMPLES**

SAMPLE INTERVAL:26.0 - 358.7 NO. BOTTLES:118
TRAY NUMBERS :6799
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN TOP | INTRVL BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 344.4 | | | | N |

**INITIAL OIL RECORD**

| PRODN TOP | INTRVL BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|
| 350.5 | 359.4 | | 838.8 | N |

**INITIAL WATER RECORD**

| PRODN TOP | INTRVL BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 169.5 | | 0.0 | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273 | 50.6 | 34.4 | CEM | 26 | 0.0 |
| 178 | 34.2 | 204.8 | PAC | | 0.0 |
| 60 | | 350.2 | HAN | | 0.0 |
| 114 | 15.6 | 358.1 | CEM | 45 | 0.0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 1.1 | 358.1 | GRNL | COMPUTALOG |
| 328.0 | 359.4 | DENL | COMPUTALOG |
| 326.1 | 356.5 | CALP | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|
| 352.7 | 359.4 | CCF | COM | | N |

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.8 | 185.90 |
| DUNDEE | 28.6 | 159.10 |
| LUCAS | 40.8 | 146.90 |
| BOIS BLANC | 122.2 | 65.50 |
| BASS ISLANDS | 158.5 | 29.20 |
| G SHALE | 200.9 | -13.20 |
| F SHALE | 207.6 | -19.90 |
| E CARBONATE | 234.7 | -47.00 |
| C SHALE | 276.5 | -88.80 |
| B MARKER | 298.4 | -110.7 |
| B ANHYDRITE | 315.4 | -127.7 |
| A2 ANHYDRITE | 339.5 | -151.8 |
| A1 CARBONATE | 341.3 | -153.6 |
| GUELPH | 349.0 | -161.3 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:GREY TWP:COLLINGWOOD BLOCK: TRACT: LOT:27 CON:X

WELL NAME:OGS 83-4 COLLINGWOOD 27-X PERMIT NO.:6332 INITIAL CLASS:OTH
OPERATOR :ONTARIO GROLOGICAL SURVEY TARGET SYS:ORD CURRENT STAT.:STRAT-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:219.3
BOT: LOG :92.7
ROTRY TOP:0.9 DRILLER:92.96
BOT:95.7 DEEPEND:
DRLG FLD :WATER PLUGBK :

**DATES**

PERMIT:19830825
START :19830826
COMPTD:19830901
OFFCNF:19840902
WRKOVR:
ABNDND:19830902

**COORDINATES**

NORTH:
SOUTH:198.0
EAST :445.0
WEST :
LAT :44 31 30
LONG :80 27 34

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:51.8 - 93.3 NO. BOTTLES:85
TRAY NUMBERS :1955
MISSNG INTERVAL:

**GENERAL COMMENTS**

SAMPLES AND LOGS DO NOT AGREE

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 146.0 | | 36.0 | HAN | | 0.0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 1.8 | 93.9 | NGRS | SCHLUMBERGER |
| 15.8 | 92.7 | SONL | SCHLUMBERGER |
| 47.9 | 93.9 | DLLM | SCHLUMBERGER |
| 1.8 | 84.1 | CNFD | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|
| 51.8 | 93.3 | | COM | | N |

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.9 | 218.40 |
| COBOURG | 65.5 | 153.80 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:HALDIMAND TWP:DUNN BLOCK: TRACT:2 LOT:7 CON:SHEEHA

WELL NAME:PAT #2 N-W 2-7 SHEEHAN PERMIT NO.:6107 INITIAL CLASS:DEV
OPERATOR :PATRICIA FARMS LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE : DEPTHS.....
CABLE TOP: KB ELEV:181.6
BOT: LOG :
ROTRY TOP: DRILLER:265.2
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830207
START :
COMPTD:19830422
OFFCNF:19830522
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:100.6
EAST :850.8
WEST :
LAT :42 52 47
LONG :79 35 35

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:N
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL: - NO. BOTTLES:
TRAY NUMBERS :
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN TOP | INTRVL BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN TOP | INTRVL BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN TOP | INTRVL BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.5 | 181.10 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:HALDIMAND TWP:DUNN BLOCK: TRACT:3 LOT:6 CON:SHEEHA

WELL NAME:PAT #3 S-E 3-6 SHEEHAN PERMIT NO.:6123 INITIAL CLASS:DEV
OPERATOR :PATRICIA FARMS LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE : DEPTHS.....
CABLE TOP: KB ELEV:185.7
BOT: LOG :
ROTRY TOP: DRILLER:254.8
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830224
START :19830215
COMPTD:19830503
OFFCNF:19830603
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:100.6
EAST :1219.0
WEST :
LAT :42 52 40
LONG :79 35 21

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:N
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:4.3 - 254.5 NO. BOTTLES:94
TRAY NUMBERS :2083
MISSNG INTERVAL:238.4-241.4

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.5 | 185.20 |
| C SHALE | 4.3 | 181.40 |
| B MARKER | 33.0 | 152.70 |
| B ANHYDRITE | 43.0 | 142.70 |
| A2 CARBONATE | 85.0 | 100.70 |
| A2 ANHYDRITE | 100.0 | 85.70 |
| A1 CARBONATE | 115.0 | 70.70 |
| GUELPH | 146.0 | 39.70 |
| DECEW | 186.0 | -0.30 |
| ROCHESTER | 192.0 | -6.30 |
| THOROLD | 214.3 | -28.60 |
| GRIMSBY | 216.7 | -31.00 |
| CABOT HEAD | 232.6 | -46.90 |
| WHIRLPOOL | 248.4 | -62.70 |
| QUEENSTON | 250.9 | -65.20 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:HALDIMAND TWP:LAKE ERIE BLOCK:46 TRACT:H LOT: CON:

WELL NAME:CWP ET AL DOVER L.ERIE 46-H-3A PERMIT NO.:6236 INITIAL CLASS:DEV
OPERATOR :CONSOLIDATED WEST PETROLEUM LTD. TARGET SYS:CLI CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.0
BOT: LOG :368.0
ROTRY TOP:19.4 DRILLER:368.0
BOT:368.0 DEEPEND:
DRLG FLD :GEL/BARITE PLUGBK :

**DATES**

PERMIT:19830729
START :19830712
COMPTD:19830716
OFFCNF:19830816
WRKOVR:
ABNDND:19830716

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 43 15
LONG :80 07 48

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:65.0 - 368.0 NO. BOTTLES:102
TRAY NUMBERS :3500
MISSNG INTERVAL:

**GENERAL COMMENTS**

1. D EQUIVALENT 166.5 2. B EQUIVALENT 186.7

GEOLOGY BY:MARK G. McMURRAY

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 273.0 | 75.9 | 62.5 | CEM | 100 | 0.0 |
| 193.0 | 39.3 | 112.7 | CEM | 75 | 0.0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | TYPE | LOGGING COMPANY |
|---|---|---|---|
| 18.0 | 367.2 | CNFD | SCHLUMBERGER |
| 112.0 | 367.2 | DIFS | SCHLUMBERGER |
| 204.0 | 351.0 | CYBER | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.3 | 174.70 |
| DRIFT | 19.4 | 161.60 |
| LUCAS | 43.0 | 138.00 |
| AMHERSTBURG | 64.3 | 116.70 |
| BOIS BLANC | 82.7 | 98.30 |
| BASS ISLANDS | 89.5 | 91.50 |
| G SHALE | 106.0 | 75.00 |
| F SHALE | 112.0 | 69.00 |
| E CARBONATE | 134.9 | 46.10 |
| C SHALE | 172.8 | 8.20 |
| B MARKER | 181.5 | -0.50 |
| B ANHYDRITE | 194.0 | -13.00 |
| A2 CARBONATE | 198.4 | -17.40 |
| A2 ANHYDRITE | 208.3 | -27.30 |
| A1 CARBONATE | 209.0 | -28.00 |
| GUELPH | 211.8 | -30.80 |
| DECEW | 281.4 | -100.4 |
| ROCHESTER | 288.2 | -107.2 |
| IRONDEQUOIT | 302.8 | -121.8 |
| REYNALES | 304.7 | -123.7 |
| THOROLD | 307.7 | -126.7 |
| GRIMSBY | 309.8 | -128.8 |
| CABOT HEAD | 320.3 | -139.3 |
| WHIRLPOOL | 340.6 | -159.6 |
| QUEENSTON | 346.8 | -165.8 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:HALDIMAND TWP:LAKE ERIE BLOCK:70 TRACT:P LOT: CON:

WELL NAME:PEMBINA #1A L.ERIE 70-P PERMIT NO.:6185 INITIAL CLASS:DEV
OPERATOR :PEMBINA EXPLORATION CO. LTD. TARGET SYS:CLI CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:180.9
BOT: LOG :469.5
ROTRY TOP:53.6 DRILLER:469.0
BOT:469.5 DEEPEND:
DRLG FLD :GEL/BARITE PLUGBK :

**DATES**

PERMIT:19830414
START :19830611
COMPTD:19830614
OFFCNF:19830714
WRKOVR:
ABNDND:19830614

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 36 43
LONG :79 39 17

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:144.0 - 469.0 NO. BOTTLES:109
TRAY NUMBERS :1897
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN TOP | PRODN BOT | INTRVL FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN TOP | PRODN BOT | INTRVL FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN TOP | PRODN BOT | INTRVL STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.4 | 140.4 | CEM | 200 | 0.0 |
| 193 | 39.3 | 192.9 | CEM | 100 | 0.0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 24.0 | 460.0 | CNFD | SCHLUMBERGER |
| 293.5 | 450.0 | CBLK | SCHLUMBERGER |
| 191.0 | 467.5 | DLLM | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.2 | 174.70 |
| DRIFT | 53.6 | 127.30 |
| DUNDEE | 119.2 | 61.70 |
| LUCAS | 128.2 | 52.70 |
| AMHERSTBURG | 142.7 | 38.20 |
| BOIS BLANC | 162.6 | 18.30 |
| BASS ISLANDS | 174.6 | 6.30 |
| G SHALE | 191.0 | -10.10 |
| F SHALE | 196.3 | -15.40 |
| E CARBONATE | 217.9 | -37.00 |
| C SHALE | 256.6 | -75.70 |
| B ANHYDRITE | 280.1 | -99.20 |
| A2 CARBONATE | 286.2 | -105.3 |
| A2 ANHYDRITE | 298.8 | -117.9 |
| A1 CARBONATE | 299.8 | -118.9 |
| GUELPH | 303.1 | -122.2 |
| DECEW | 356.2 | -175.3 |
| ROCHESTER | 366.0 | -185.1 |
| IRONDEQUOIT | 389.5 | -208.6 |
| REYNALES | 391.9 | -211.0 |
| THOROLD | 394.7 | -213.8 |
| GRIMSBY | 395.8 | -214.9 |
| CABOT HEAD | 414.8 | -233.9 |
| WHIRLPOOL | 432.9 | -252.0 |
| QUEENSTON | 436.5 | -255.6 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:HALDIMAND TWP:LAKE ERIE BLOCK:91 TRACT:S LOT: CON:

WELL NAME:PEMBINA #4 L.ERIE 91-S PERMIT NO.:6198 INITIAL CLASS:EXT
OPERATOR :PEMBINA EXPLORATION CO. LTD. TARGET SYS:CLI CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT
CABLE TOP:
BOT:
ROTRY TOP:22.0
BOT:500.0
DRLG FLD :GEL CHEM

DEPTHS.....
KB ELEV:180.7
LOG :499.9
DRILLER:500.0
DEEPEND:
PLUGBK :

**DATES**

PERMIT:19830414
START :19830625
COMPTD:19830702
OFFCNF:19840702
WRKOVR:
ABNDND:19830703

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 31 14
LONG :80 11 18

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:135.0 - 500.0 NO. BOTTLES:154
TRAY NUMBERS :1893
MISSNG INTERVAL:447.5

**GENERAL COMMENTS**

CORE CHIPS MISSING

GEOLOGY BY:G.M. CARD

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 220.0 | | | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 339 | 75.4 | 132.5 | CEM | 250 | 0.0 |
| 193 | 39.3 | 179.8 | CEM | 200 | 0.0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 12.0 | 485.5 | CNFD | SCHLUMBERGER |
| 12.0 | 496.0 | SONL | SCHLUMBERGER |
| 179.0 | 498.0 | DLLM | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. | BOXES | ANAL |
|---|---|---|---|---|---|---|
| | | CC2 | PRL | 868 | 14 | Y |

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.0 | 174.70 |
| DRIFT | 22.0 | 158.70 |
| DUNDEE | 117.4 | 63.30 |
| LUCAS | 127.2 | 53.50 |
| AMHERSTBURG | 141.0 | 39.70 |
| BOIS BLANC | 163.8 | 16.90 |
| BASS ISLANDS | 176.7 | 4.00 |
| G SHALE | 216.8 | -36.10 |
| F SHALE | 223.5 | -42.80 |
| E CARBONATE | 245.2 | -64.50 |
| C SHALE | 283.2 | -102.5 |
| B ANHYDRITE | 308.3 | -127.6 |
| A2 CARBONATE | 314.0 | -133.3 |
| A2 ANHYDRITE | 326.5 | -145.8 |
| A1 CARBONATE | 328.0 | -147.3 |
| GUELPH | 330.5 | -149.8 |
| GOAT ISLAND | 355.0 | -174.3 |
| GASPORT | 385.0 | -204.3 |
| DECEW | 396.6 | -215.9 |
| ROCHESTER | 420.3 | -239.6 |
| REYNALES | 432.0 | -251.3 |
| THOROLD | 435.8 | -255.1 |
| GRIMSBY | 440.4 | -259.7 |
| CABOT HEAD | 455.0 | -274.3 |
| WHIRLPOOL | 477.3 | -296.6 |
| QUEENSTON | 479.6 | -298.9 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:HALDIMAND TWP:L.ERIE BLOCK: TRACT:4 LOT:89 CON:K

WELL NAME:PEMBINA #4 L.ERIE 89-K PERMIT NO.:6187 INITIAL CLASS:DEV
OPERATOR :PEMBINA EXPLORATION CO. LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:180.9
BOT: LOG :497.0
ROTRY TOP:57.2 DRILLER:497.0
BOT:497.0 DEEPEND:
DRLG FLD :GEL CHEM PLUGBK :483.0

**DATES**

PERMIT:19830414
START :19830610
COMPTD:19830615
OFFCNF:19830715
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 32 13
LONG :80 00 14

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:Y
BPT RPTS:N

**COMPLETION DATA**

GAS:4.9 103m3/d PRESSURE:4756 kPa
OIL: m3/d
PRODUCING FORMATION:GRIMSBY
PRODUCING INTERVAL :434.2 - 445.0

**SAMPLES**

SAMPLE INTERVAL:149.0 - 497.0 NO. BOTTLES:158
TRAY NUMBERS :2017
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN TOP | INTRVL BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 434.5 | | SHOW | | N |
| 440.0 | | SHOW | | N |
| 444.0 | | SHOW | | N |
| 431.0 | 446.0 | 4.899 | 4756 | N |

**INITIAL OIL RECORD**

| PRODN TOP | INTRVL BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN TOP | INTRVL BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 339 | 75.4 | 146.4 | CEM | 250 | 0 |
| 193 | 39.3 | 198.1 | CEM | 275 | 0 |
| 114 | 14.14 | 431.4 | CEM | 225 | 0 |
| 60 | 5.9 | 494.0 | HAN | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 25.0 | 496.0 | CNFD | SCHLUMBERGER |
| 380.0 | 480.0 | | SCHLUMBERGER |
| 197.0 | 496.0 | SONL | SCHLUMBERGER |
| 380.0 | 480.0 | CMPL | SCHLUMBERGER |
| 196.8 | 496.0 | DLLM | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. | NO. BOXES | ANAL |
|---|---|---|---|---|---|---|
| 435.0 | 451.0 | CC2 | PRL | 870 | 18 | Y |

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.2 | 174.70 |
| DRIFT | 57.2 | 123.70 |
| DUNDEE | 130.3 | 50.60 |
| LUCAS | 144.6 | 36.30 |
| AMHERSTBURG | 160.5 | 20.40 |
| BOIS BLANC | 178.5 | 2.40 |
| BASS ISLANDS | 193.6 | -12.70 |
| G SHALE | 223.5 | -42.60 |
| F SHALE | 230.0 | -49.10 |
| E CARBONATE | 252.5 | -71.60 |
| C SHALE | 291.2 | -110.3 |
| B MARKER | 299.0 | -118.1 |
| B ANHYDRITE | 312.2 | -131.3 |
| A2 CARBONATE | 318.0 | -137.1 |
| A2 ANHYDRITE | 325.5 | -144.6 |
| A1 CARBONATE | 328.0 | -147.1 |
| GUELPH | 330.0 | -149.1 |
| DECEW | 395.7 | -214.8 |
| ROCHESTER | 415.0 | -234.1 |
| REYNALES | 425.6 | -244.7 |
| THOROLD | 430.0 | -249.1 |
| GRIMSBY | 431.0 | -250.1 |
| CABOT HEAD | 450.3 | -269.4 |
| WHIRLPOOL | 471.8 | -290.9 |
| QUEENSTON | 476.2 | -295.3 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 431.0 | | GRIMSBY |

COUNTY:HALDIMAND TWP:L.ERIE BLOCK:19 TRACT:0 LOT: CON:

WELL NAME:PEMBINA #2 L.ERIE 19-O PERMIT NO.:6196 INITIAL CLASS:DEV
OPERATOR :PEMBINA EXPLORATION CO. LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:180.8
BOT: LOG :315.0
ROTRY TOP:21.5 DRILLER:315.0
BOT:315.0 DEEPEND:
DRLG FLD :GEL CHEM PLUGBK :299.8

**DATES**

PERMIT:19830414
START :19830503
COMPTD:19830511
OFFCNF:19830611
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 47 45
LONG :79 49 48

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS:1.549 103m3/d PRESSURE:3640 kPa
OIL: m3/d
PRODUCING FORMATION:GRIMSBY
PRODUCING INTERVAL :265.5 - 271.0

**SAMPLES**

SAMPLE INTERVAL:43.0 - 315.8 NO. BOTTLES:91
TRAY NUMBERS :1910
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN TOP | INTRVL BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 270.0 | | SHOW | | N |
| 268.0 | 315.0 | 1.549 | 3640 | N |

**INITIAL OIL RECORD**

| PRODN TOP | INTRVL BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN TOP | INTRVL BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 340.0 | 71.4 | 40.4 | CEM | 50 | 0 |
| 193 | 39.9 | 90.2 | CEM | 75 | 0 |
| 114 | 14.1 | 260.7 | CEM | 150 | 0 |
| 60 | 4.7 | 310.8 | HAN | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 90.0 | 314.0 | CNFD | SCHLUMBERGER |
| 250.0 | 295.0 | CBSC | SCHLUMBERGER |
| 215.0 | 314.0 | CBLK | SCHLUMBERGER |
| 90.0 | 313.0 | DLLM | SCHLUMBERGER |
| 200.0 | 299.0 | CMPL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 0.1 | 174.70 |
| DRIFT | 21.5 | 159.30 |
| LUCAS | 22.6 | 158.20 |
| AMHERSTBURG | 35.2 | 145.60 |
| BOIS BLANC | 51.3 | 129.50 |
| BASS ISLANDS | 59.5 | 121.30 |
| G SHALE | 65.2 | 115.60 |
| F SHALE | 86.3 | 94.50 |
| C SHALE | 122.8 | 58.00 |
| B MARKER | 130.5 | 50.30 |
| B ANHYDRITE | 144.0 | 36.80 |
| A2 CARBONATE | 149.1 | 31.70 |
| A2 ANHYDRITE | 157.1 | 23.70 |
| A1 CARBONATE | 160.5 | 20.30 |
| GUELPH | 163.4 | 17.40 |
| DECEW | 221.2 | -40.40 |
| ROCHESTER | 242.5 | -61.70 |
| IRONDEQUOIT | 253.3 | -72.50 |
| REYNALES | 255.6 | -74.80 |
| THOROLD | 257.8 | -77.00 |
| GRIMSBY | 258.5 | -77.70 |
| CABOT HEAD | 274.0 | -93.20 |
| WHIRLPOOL | 295.0 | -114.2 |
| QUEENSTON | 297.0 | -116.2 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 268.0 | | GRIMSBY |

COUNTY:HALDIMAND TWP:L.ERIE BLOCK:22 TRACT:H LOT: CON:

WELL NAME:PEMBINA #3 L.ERIE 22-H PERMIT NO.:6195 INITIAL CLASS:DEV
OPERATOR :PEMBINA EXPLORATION CO. LTD. TARGET SYS:CLI CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.2
BOT: LOG :321.3
ROTRY TOP:25.7 DRILLER:321.0
BOT:321.0 DEEPEND:
DRLG FLD :GEL BARITE PLUGBK :

**DATES**

PERMIT:19830414
START :19830503
COMPTD:19830510
OFFCNF:19830610
WRKOVR:
ABNDND:19830510

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 48 15
LONG :79 32 44

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:48.0 - 318.0 NO. BOTTLES:89
TRAY NUMBERS :1874
MISSNG INTERVAL:66.0-69.0

**GENERAL COMMENTS**

**GEOLOGY BY:JAMES LAU**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 262.8 | 266.0 | SHOW | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 48.0 | CEM | 50 | 0 |
| 193 | 39.3 | 98.2 | CEM | 75 | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 23.9 | 304.4 | CNFD | SCHLUMBERGER |
| 97.0 | 319.0 | DLLM | SCHLUMBERGER |
| 190.0 | 306.3 | CBLK | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.5 | 174.70 |
| DRIFT | 25.7 | 155.50 |
| AMHERSTBURG | 31.7 | 149.50 |
| BOIS BLANC | 39.6 | 141.60 |
| BASS ISLANDS | 56.0 | 125.20 |
| G SHALE | 62.6 | 118.60 |
| F SHALE | 68.8 | 112.40 |
| E CARBONATE | 91.6 | 89.60 |
| C SHALE | 128.2 | 53.00 |
| B MARKER | 135.8 | 45.40 |
| B ANHYDRITE | 150.5 | 30.70 |
| A2 CARBONATE | 157.8 | 23.40 |
| A2 ANHYDRITE | 167.7 | 13.50 |
| A1 CARBONATE | 168.7 | 12.50 |
| GUELPH | 171.8 | 9.40 |
| DECEW | 223.8 | -42.60 |
| ROCHESTER | 236.2 | -55.00 |
| IRONDEQUOIT | 255.2 | -74.00 |
| REYNALES | 257.6 | -76.40 |
| THOROLD | 260.7 | -79.50 |
| GRIMSBY | 266.5 | -85.30 |
| CABOT HEAD | 279.7 | -98.50 |
| WHIRLPOOL | 296.2 | -115.0 |
| QUEENSTON | 299.2 | -118.0 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:HALDIMAND TWP:L.ERIE BLOCK:38 TRACT:Q LOT: CON:

WELL NAME:PEMBINA #2 L.ERIE 38-Q PERMIT NO.:6197 INITIAL CLASS:NPW
OPERATOR :PEMBINA EXPLORATION CO. LTD. TARGET SYS:CLI CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.1
BOT: LOG :411.0
ROTRY TOP:34.4 DRILLER:411.0
BOT:411.0 DEEPEND:
DRLG FLD :GEL CHEM & PLUGBK :

**DATES**

PERMIT:19830414
START :19830531
COMPTD:19830604
OFFCNF:19840604
WRKOVR:
ABNDND:19830709

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 41 42
LONG :79 28 48

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:120.0 - 411.0 NO. BOTTLES:96
TRAY NUMBERS :2027
MISSNG INTERVAL:243.0-246.0

**GENERAL COMMENTS**

GEOLOGY BY:G.M. CARD

**INITIAL GAS RECORD**

| PRODN TOP | INTRVL BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 342.0 | | SHOW | | N |

**INITIAL OIL RECORD**

| PRODN TOP | INTRVL BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN TOP | INTRVL BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 117.1 | CEM | 175 | 0 |
| 193 | 39.3 | 169.2 | CEM | 100 | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 25.0 | 410.2 | SONL | SCHLUMBERGER |
| 60.0 | 410.2 | CNFD | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.4 | 174.70 |
| DRIFT | 34.4 | 146.70 |
| LUCAS | 100.2 | 80.90 |
| AMHERSTBURG | 105.3 | 75.80 |
| BOIS BLANC | 120.9 | 60.20 |
| BASS ISLANDS | 137.7 | 43.40 |
| G SHALE | 143.7 | 37.40 |
| F SHALE | 149.7 | 31.40 |
| E CARBONATE | 171.4 | 9.70 |
| C SHALE | 210.0 | -28.90 |
| B MARKER | 225.0 | -43.90 |
| B ANHYDRITE | 233.7 | -52.60 |
| A2 CARBONATE | 238.9 | -57.80 |
| A2 ANHYDRITE | 250.7 | -69.60 |
| A1 CARBONATE | 251.9 | -70.80 |
| GUELPH | 255.6 | -74.50 |
| DECEW | 307.2 | -126.1 |
| ROCHESTER | 329.9 | -148.8 |
| IRONDEQUOIT | 341.4 | -160.3 |
| REYNALES | 343.7 | -162.6 |
| THOROLD | 346.5 | -165.4 |
| GRIMSBY | 348.2 | -167.1 |
| CABOT HEAD | 365.3 | -184.2 |
| WHIRLPOOL | 385.5 | -204.4 |
| QUEENSTON | 390.2 | -209.1 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:HALDIMAND TWP:L.ERIE BLOCK:39 TRACT:N LOT: CON:

WELL NAME:PEMBINA #1 L.ERIE 39-N PERMIT NO.:6194 INITIAL CLASS:EXT
OPERATOR :PEMBINA EXPLORATION CO. LTD. TARGET SYS:CLI CURRENT STAT.:GS-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.0
BOT: LOG :394.0
ROTRY TOP:34.8 DRILLER:393.0
BOT:394.0 DEEPEND:
DRLG FLD :GEL BARITE PLUGBK :

**DATES**

PERMIT:19830414
START :19830527
COMPTD:19830530
OFFCNF:19840530
WRKOVR:
ABNDND:19830531

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 42 44
LONG :79 33 14

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10$m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:

PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:105.0 - 393.0 NO. BOTTLES:94
TRAY NUMBERS :2029
MISSNG INTERVAL:132.0-135.0 , 189.0-192.0 , 375.0-378.0

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10$m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 337.0 | SHOW | | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273 | 79.5 | 101.4 | CEM | 200 | 0 |
| 193 | 39.3 | 152.3 | CEM | 100 | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 25.0 | 377.5 | CNFD | SCHLUMBERGER |
| 151.0 | 392.0 | DLLM | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.3 | 174.70 |
| DRIFT | 34.8 | 146.20 |
| BOIS BLANC | 106.4 | 74.60 |
| BASS ISLANDS | 117.7 | 63.30 |
| G SHALE | 128.2 | 52.80 |
| F SHALE | 133.3 | 47.70 |
| E CARBONATE | 154.4 | 26.60 |
| C SHALE | 191.3 | -10.30 |
| B MARKER | 200.0 | -19.00 |
| B ANHYDRITE | 215.2 | -34.20 |
| A2 CARBONATE | 220.2 | -39.20 |
| A2 ANHYDRITE | 232.5 | -51.50 |
| A1 CARBONATE | 234.2 | -53.20 |
| GUELPH | 237.6 | -56.60 |
| DECEW | 292.0 | -111.0 |
| ROCHESTER | 306.6 | -125.6 |
| IRONDEQUOIT | 323.5 | -142.5 |
| REYNALES | 325.6 | -144.6 |
| GRIMSBY | 329.9 | -148.9 |
| CABOT HEAD | 346.8 | -165.8 |
| WHIRLPOOL | 363.7 | -182.7 |
| QUEENSTON | 369.3 | -188.3 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:HALDIMAND TWP:L.ERIE BLOCK:41 TRACT:J LOT: CON:

WELL NAME:PEMBINA #2 L.ERIE 41-J PERMIT NO.:6193 INITIAL CLASS:DEV
OPERATOR :PEMBINA EXPLORATION CO. LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR.
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:180.8
BOT: LOG :362.2
ROTRY TOP:35.3 DRILLER:362.0
BOT:362.0 DEEPEND:
DRLG FLD :GEL CHEM PLUGBK :344.7

**DATES**

PERMIT:19830414
START :19830529
COMPTD:19830602
OFFCNF:19830702
WRKOVR:19830602
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 43 44
LONG :79 40 47

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS:2.642 103m3/d PRESSURE:4665 kPa
OIL: m3/d
PRODUCING FORMATION:GRIMSBY
PRODUCING INTERVAL :315.5 - 319.8

**SAMPLES**

SAMPLE INTERVAL:85.0 - 362.0 NO. BOTTLES:128
TRAY NUMBERS :1885
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 314.0 | 322.0 | 2.642 | 4665 | N |
| 315.5 | | SHOW | | N |
| 299.0 | | SHOW | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 60 | 6.0 | 355.8 | HAN | | |
| 114 | 14.14 | 311.6 | CEM | 175 | 0 |
| 193 | 39.3 | 135.1 | CEM | 125 | 0 |
| 339 | 75.4 | 83.3 | CEM | 150 | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 134.0 | 360.5 | DLLM | SCHLUMBERGER |
| 269.0 | 348.0 | CMPL | SCHLUMBERGER |
| 135.0 | 361.0 | CNFD | SCHLUMBERGER |
| 269.0 | 342.0 | CBLK | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. | BOXES | ANAL |
|---|---|---|---|---|---|---|
| 302.5 | 319.6 | CC2 | PRL | 869 | 14 | Y |

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.1 | 174.70 |
| DRIFT | 35.3 | 145.50 |
| AMHERSTBURG | 71.2 | 109.60 |
| BOIS BLANC | 80.6 | 100.20 |
| BASS ISLANDS | 91.5 | 89.30 |
| G SHALE | 103.3 | 77.50 |
| F SHALE | 107.2 | 73.60 |
| E CARBONATE | 130.5 | 50.30 |
| C SHALE | 165.0 | 15.80 |
| B MARKER | 176.0 | 4.80 |
| B ANHYDRITE | 190.0 | -9.20 |
| A2 CARBONATE | 194.9 | -14.10 |
| A2 ANHYDRITE | 208.3 | -27.50 |
| A1 CARBONATE | 212.8 | -32.00 |
| GUELPH | 219.8 | -39.00 |
| DECEW | 266.9 | -86.10 |
| ROCHESTER | 283.8 | -103.0 |
| IRONDEQUOIT | 299.0 | -118.2 |
| REYNALES | 301.2 | -120.4 |
| THOROLD | 303.0 | -122.2 |
| GRIMSBY | 304.4 | -123.6 |
| CABOT HEAD | 320.1 | -139.3 |
| WHIRLPOOL | 339.8 | -159.0 |
| QUEENSTON | 342.8 | -162.0 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 314.0 | | GRIMSBY |

COUNTY:HALDIMAND TWP:L.ERIE BLOCK:41 TRACT:Q LOT: CON:

WELL NAME:PEMBINA #4 L.ERIE 41-Q PERMIT NO.:6192 INITIAL CLASS:DEV
OPERATOR :PEMBINA EXPLORATION CO. LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.2
BOT: LOG :390.3
ROTRY TOP:40.5 DRILLER:390.9
BOT:390.8 DEEPEND:
DRLG FLD :GEL BARITE PLUGBK :386.3

**DATES**

PERMIT:19830414
START :19830511
COMPTD:19830514
OFFCNF:19830614
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 41 14
LONG :79 43 16

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS:5.154 103m3/d PRESSURE:4514 kPa
OIL: m3/d
PRODUCING FORMATION:GRIMSBY
PRODUCING INTERVAL :331.0 - 338.5

**SAMPLES**

SAMPLE INTERVAL:111.0 - 390.0 NO. BOTTLES:83
TRAY NUMBERS :1906
MISSNG INTERVAL:321.0-354.0

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 235.0 | | SHOW | | N |
| 322.0 | | SHOW | | N |
| 333.0 | | SHOW | | N |
| 329.5 | 334.5 | 5.154 | 4514 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 109.1 | CEM | 150 | 0 |
| 193 | 39.3 | 160.1 | CEM | 100 | 0 |
| 114 | 14.4 | 326.3 | CEM | 175 | 0 |
| 60 | 5.95 | 377.9 | HAN | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 25.0 | 389.5 | CNFD | SCHLUMBERGER |
| 225.0 | 375.0 | CBLK | SCHLUMBERGER |
| 300.0 | 376.0 | CMPL | SCHLUMBERGER |
| 160.0 | 389.5 | DLLM | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.5 | 174.70 |
| DRIFT | 40.5 | 140.70 |
| AMHERSTBURG | 83.5 | 97.70 |
| BOIS BLANC | 99.3 | 81.90 |
| BASS ISLANDS | 110.5 | 70.70 |
| G SHALE | 124.5 | 56.70 |
| F SHALE | 132.5 | 48.70 |
| E CARBONATE | 152.9 | 28.30 |
| C SHALE | 190.2 | -9.00 |
| B MARKER | 197.8 | -16.60 |
| B ANHYDRITE | 211.9 | -30.70 |
| A2 CARBONATE | 217.0 | -35.80 |
| A2 ANHYDRITE | 231.0 | -49.80 |
| A1 CARBONATE | 232.0 | -50.80 |
| GUELPH | 234.2 | -53.00 |
| DECEW | 286.7 | -105.5 |
| ROCHESTER | 310.2 | -129.0 |
| IRONDEQUOIT | 321.0 | -139.8 |
| REYNALES | 323.3 | -142.1 |
| THOROLD | 325.3 | -144.1 |
| GRIMSBY | 326.4 | -145.2 |
| CABOT HEAD | 343.5 | -162.3 |
| WHIRLPOOL | 364.0 | -182.8 |
| QUEENSTON | 367.1 | -185.9 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 329.5 | | GRIMSBY |

COUNTY:HALDIMAND TWP:L.ERIE BLOCK:41 TRACT:V LOT: CON:

WELL NAME:PEMBINA #3 L.ERIE 41-V PERMIT NO.:6191 INITIAL CLASS:DEV
OPERATOR :PEMBINA EXPLORATION CO. LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.1
BOT: LOG :404.2
ROTRY TOP:40.5 DRILLER:404.0
BOT:404.0 DEEPEND:
DRLG FLD :GEL BARITE PLUGBK :385.0

**DATES**

PERMIT:19830414
START :19830516
COMPTD:19830525
OFFCNF:19830625
WRKOVR:19830525
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 40 13
LONG :79 41 47

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS:8.67 103m3/d PRESSURE:4639 kPa
OIL: m3/d
PRODUCING FORMATION:GRIMSBY
PRODUCING INTERVAL :342.0 - 353.3

**SAMPLES**

SAMPLE INTERVAL:103.0 - 404.0 NO. BOTTLES:102
TRAY NUMBERS :1944
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN TOP | INTRVL BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 342.0 | | SHOW | | N |
| 350.0 | | SHOW | | N |
| 348.0 | 355.0 | 8.666 | 4639 | N |

**INITIAL OIL RECORD**

| PRODN TOP | INTRVL BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN TOP | INTRVL BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 100.1 | CEM | 125 | 0 |
| 193 | 39.3 | 155.0 | CEM | 100 | 0 |
| 114 | 14.14 | 338.5 | CEM | 175 | 0 |
| 60 | 5.95 | 399.2 | HAN | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 25.0 | 403.4 | CNFD | SCHLUMBERGER |
| 155.0 | 403.3 | SONL | SCHLUMBERGER |
| 300.0 | 385.0 | CMPL | SCHLUMBERGER |
| 153.0 | 402.0 | DLLM | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. | NO. BOXES | ANAL |
|---|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.4 | 174.70 |
| DRIFT | 40.5 | 140.60 |
| AMHERSTBURG | 85.8 | 95.30 |
| BOIS BLANC | 104.5 | 76.60 |
| BASS ISLANDS | 120.6 | 60.50 |
| G SHALE | 136.3 | 44.80 |
| F SHALE | 142.5 | 38.60 |
| E CARBONATE | 162.6 | 18.50 |
| C SHALE | 199.7 | -18.60 |
| B MARKER | 209.0 | -27.90 |
| B ANHYDRITE | 223.2 | -42.10 |
| A2 CARBONATE | 227.9 | -46.80 |
| A2 ANHYDRITE | 235.0 | -53.90 |
| A1 CARBONATE | 238.0 | -56.90 |
| GUELPH | 244.2 | -63.10 |
| DECEW | 298.0 | -116.9 |
| ROCHESTER | 318.1 | -137.0 |
| IRONDEQUOIT | 331.2 | -150.1 |
| REYNALES | 333.3 | -152.2 |
| THOROLD | 335.8 | -154.7 |
| GRIMSBY | 336.9 | -155.8 |
| CABOT HEAD | 356.2 | -175.1 |
| WHIRLPOOL | 374.5 | -193.4 |
| QUEENSTON | 378.8 | -197.7 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 348.0 | | GRIMSBY |

COUNTY:HALDIMAND TWP:L.ERIE BLOCK:42 TRACT:F LOT: CON:

WELL NAME:PEMBINA #2 L.ERIE 42-F PERMIT NO.:6190 INITIAL CLASS:DEV
OPERATOR :PEMBINA EXPLORATION CO. LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:180.4
BOT: LOG :368.5
ROTRY TOP:34.4 DRILLER:368.8
BOT:368.5 DEEPEND:
DRLG FLD :GEM CHEM PLUGBK :

**DATES**

PERMIT:19830413
START :19830519
COMPTD:19830526
OFFCNF:19830626
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 43 45
LONG :79 49 47

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS:4.39 103m3/d PRESSURE:5270 kPa
OIL: m3/d
PRODUCING FORMATION:WHIRLPOOL
PRODUCING INTERVAL :339.0 - 342.0

**SAMPLES**

SAMPLE INTERVAL:75.0 - 367.0 NO. BOTTLES:143
TRAY NUMBERS :1887
MISSNG INTERVAL:337.0-346.0

**GENERAL COMMENTS**

GEOLOGY BY:G.M. CARD

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 297.0 | | | | N |
| 301.0 | 310.0 | 2.147 | 4459 | N |
| 336.0 | 345.0 | 4.390 | 5270 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 340 | 71.4 | 73.1 | CEM | 100 | 0 |
| 193 | 39.3 | 122.7 | CEM | 100 | 0 |
| 114 | 14.1 | 336.3 | CEM | 175 | 0 |
| 60 | 5.95 | 364.8 | HAN | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 120.0 | 368.0 | CNFD | SCHLUMBERGER |
| 270.0 | 345.0 | CBLK | SCHLUMBERGER |
| 258.0 | 351.0 | CMPL | SCHLUMBERGER |
| 122.0 | 365.5 | DLLM | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. | BOXES | ANAL |
|---|---|---|---|---|---|---|
| 301.0 | 313.5 | CC2 | PRL | 867 | 16 | Y |
| 337.2 | 345.9 | CC2 | PRL | 867 | 16 | Y |

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 5.7 | 174.70 |
| DRIFT | 34.4 | 146.00 |
| LUCAS | 55.8 | 124.60 |
| E CARBONATE | 129.0 | 51.40 |
| C SHALE | 166.5 | 13.90 |
| B MARKER | 174.0 | 6.40 |
| B ANHYDRITE | 187.2 | -6.80 |
| A2 CARBONATE | 192.3 | -11.90 |
| A2 ANHYDRITE | 200.2 | -19.80 |
| A1 CARBONATE | 203.7 | -23.30 |
| GUELPH | 209.0 | -28.60 |
| DECEW | 264.1 | -83.70 |
| ROCHESTER | 284.8 | -104.4 |
| IRONDEQUOIT | 297.3 | -116.9 |
| REYNALES | 299.9 | -119.5 |
| THOROLD | 301.6 | -121.2 |
| GRIMSBY | 303.9 | -123.5 |
| CABOT HEAD | 322.0 | -141.6 |
| WHIRLPOOL | 338.8 | -158.4 |
| QUEENSTON | 343.2 | -162.8 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 336.0 | | WHIRLPOOL |
| 301.0 | | GRIMSBY |

COUNTY:HALDIMAND TWP:L.ERIE BLOCK:43 TRACT:H LOT: CON:

WELL NAME:PEMBINA #1 L.ERIE 43-H PERMIT NO.:6180 INITIAL CLASS:DEV
OPERATOR :PEMBINA EXPLORATION CO. LTD. TARGET SYS:CLI CURRENT STAT.:GS-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:180.8
BOT: LOG :360.6
ROTRY TOP:32.1 DRILLER:361.0
BOT:361.0 DEEPEND:
DRLG FLD :GEL CHEM PLUGBK :

**DATES**

PERMIT:19830414
START :19830514
COMPTD:19830518
OFFCNF:19830618
WRKOVR:
ABNDND:19830518

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 43 46
LONG :79 52 19

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:68.0 - 362.0 NO. BOTTLES:97
TRAY NUMBERS :1878
MISSNG INTERVAL:137.0-140.0

**GENERAL COMMENTS**

GEOLOGY BY:JAMES LAU

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 80.0 | | SHOW | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 340 | 71.4 | 65.7 | CEM | 100 | 0 |
| 193 | 39.3 | 119.5 | CEM | 100 | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 30.6 | 361.0 | CNFD | SCHLUMBERGER |
| 292.2 | 361.0 | DLLM | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.1 | 174.70 |
| DRIFT | 32.1 | 148.70 |
| AMHERSTBURG | 51.4 | 129.40 |
| BOIS BLANC | 62.4 | 118.40 |
| BASS ISLANDS | 79.2 | 101.60 |
| G SHALE | 93.5 | 87.30 |
| F SHALE | 100.9 | 79.90 |
| E CARBONATE | 122.0 | 58.80 |
| C SHALE | 158.2 | 22.60 |
| B MARKER | 165.7 | 15.10 |
| B ANHYDRITE | 178.3 | 2.50 |
| A2 CARBONATE | 182.8 | -2.00 |
| A2 ANHYDRITE | 196.0 | -15.20 |
| A1 CARBONATE | 197.0 | -16.20 |
| GUELPH | 200.5 | -19.70 |
| DECEW | 262.5 | -81.70 |
| ROCHESTER | 280.8 | -100.0 |
| IRONDEQUOIT | 295.5 | -114.7 |
| REYNALES | 297.5 | -116.7 |
| THOROLD | 299.6 | -118.8 |
| GRIMSBY | 304.0 | -123.2 |
| CABOT HEAD | 316.5 | -135.7 |
| WHIRLPOOL | 337.2 | -156.4 |
| QUEENSTON | 339.0 | -158.2 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:HALDIMAND TWP:L.ERIE BLOCK:66 TRACT:A LOT: CON:

WELL NAME:PEMBINA #4 L.ERIE 66-A PERMIT NO.:6181 INITIAL CLASS:DEV
OPERATOR :PEMBINA EXPLORATION CO. LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:180.9
BOT: LOG :409.4
ROTRY TOP:46.5 DRILLER:409.0
BOT:409.0 DEEPEND:
DRLG FLD :GEL CHEM PLUGBK :387.9

**DATES**

PERMIT:19830414
START :19830604
COMPTD:19830608
OFFCNF:19830708
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 39 12
LONG :79 55 19

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS:2.832 103m3/d PRESSURE:4674 kPa
OIL: m3/d
PRODUCING FORMATION:GRIMSBY
PRODUCING INTERVAL :347.8 - 360.0

**SAMPLES**

SAMPLE INTERVAL:97.0 - 409.0 NO. BOTTLES:105
TRAY NUMBERS :1996
MISSNG INTERVAL:

**GENERAL COMMENTS**

GEOLOGY BY:G.M. CARD

**INITIAL GAS RECORD**

| PRODN TOP | INTRVL BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 359.0 | | SHOW | | N |
| 357.0 | 362.0 | 2.832 | 4674 | N |

**INITIAL OIL RECORD**

| PRODN TOP | INTRVL BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN TOP | INTRVL BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 339 | 75.4 | 94.32 | CEM | 125 | |
| 193 | 39.3 | 146.6 | CEM | 125 | |
| 114 | 14.14 | 344.0 | CEM | 175 | |
| 60 | 5.95 | 390.4 | HAN | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 300.0 | 387.0 | CBSC | SCHLUMBERGER |
| 147.0 | 409.0 | SONL | SCHLUMBERGER |
| 23.0 | 393.0 | CNFD | SCHLUMBERGER |
| 300.0 | 387.0 | CMPL | SCHLUMBERGER |
| 147.0 | 393.0 | DLLM | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.2 | 174.70 |
| DRIFT | 46.5 | 134.40 |
| LUCAS | 80.3 | 100.60 |
| AMHERSTBURG | 94.0 | 86.90 |
| BOIS BLANC | 110.3 | 70.60 |
| BASS ISLANDS | 122.9 | 58.00 |
| G SHALE | 139.7 | 41.20 |
| F SHALE | 145.0 | 35.90 |
| E CARBONATE | 166.8 | 14.10 |
| C SHALE | 205.3 | -24.40 |
| B MARKER | 214.6 | -33.70 |
| B ANHYDRITE | 227.5 | -46.60 |
| A2 CARBONATE | 232.8 | -51.90 |
| A2 ANHYDRITE | 240.0 | -59.10 |
| A1 CARBONATE | 243.0 | -62.10 |
| GUELPH | 245.5 | -64.60 |
| DECEW | 312.1 | -131.2 |
| ROCHESTER | 328.0 | -147.1 |
| IRONDEQUOIT | 342.3 | -161.4 |
| REYNALES | 344.8 | -163.9 |
| THOROLD | 346.7 | -165.8 |
| GRIMSBY | 347.0 | -166.1 |
| CABOT HEAD | 365.0 | -184.1 |
| WHIRLPOOL | 385.3 | -204.4 |
| QUEENSTON | 388.2 | -207.3 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 357.0 | | GRIMSBY |

COUNTY:HALDIMAND TWP:L.ERIE BLOCK:66 TRACT:F LOT: CON:

WELL NAME:PEMBINA #2 L.ERIE 66-F

OPERATOR :PEMBINA EXPLORATION CO. LTD. PERMIT NO.:6217 INITIAL CLASS:DEV
TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT
CABLE TOP:
BOT:
ROTRY TOP:48.9
BOT:406.2
DRLG FLD :GEL CHEM

DEPTHS.....
KB ELEV:180.8
LOG :406.2
DRILLER:406.2
DEEPEND:
PLUGBK :393.5

**DATES**

PERMIT:19830429
START :19830618
COMPTD:19830622
OFFCNF:19830722
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 38 43
LONG :79 59 43

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:Y
BPT RPTS:N

**COMPLETION DATA**

GAS:1.34 103m3/d PRESSURE:4378 kPa
OIL: m3/d
PRODUCING FORMATION:GRIMSBY
PRODUCING INTERVAL :347.5 - 359.2

**SAMPLES**

SAMPLE INTERVAL:93.0 - 406.0 NO. BOTTLES:105
TRAY NUMBERS :1989
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 345.5 | 361.0 | 1.34 | 4378 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 340 | 75.4 | 90.5 | CEM | 125 | 0 |
| 193 | 39.3 | 137.3 | CEM | 100 | 0 |
| 114 | 14.14 | 334.5 | CEM | 175 | 0 |
| 60 | 5.95 | 403.8 | HAN | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 18.0 | 406.0 | CNFD | SCHLUMBERGER |
| 300.0 | 390.0 | CMPL | SCHLUMBERGER |
| 137.0 | 406.0 | SONL | SCHLUMBERGER |
| 136.0 | 404.0 | DLLM | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.1 | 174.70 |
| DRIFT | 48.9 | 131.90 |
| LUCAS | 73.2 | 107.60 |
| AMHERSTBURG | 78.5 | 102.30 |
| BOIS BLANC | 99.2 | 81.60 |
| BASS ISLANDS | 115.2 | 65.60 |
| G SHALE | 133.3 | 47.50 |
| F SHALE | 139.8 | 41.00 |
| E CARBONATE | 162.3 | 18.50 |
| C SHALE | 200.3 | -19.50 |
| B MARKER | 213.0 | -32.20 |
| B ANHYDRITE | 220.1 | -39.30 |
| A2 CARBONATE | 225.7 | -44.90 |
| A2 ANHYDRITE | 233.2 | -52.40 |
| A1 CARBONATE | 236.0 | -55.20 |
| GUELPH | 242.3 | -61.50 |
| DECEW | 303.2 | -122.4 |
| ROCHESTER | 321.0 | -140.2 |
| REYNALES | 338.6 | -157.8 |
| THOROLD | 342.8 | -162.0 |
| GRIMSBY | 345.1 | -164.3 |
| CABOT HEAD | 362.2 | -181.4 |
| WHIRLPOOL | 382.1 | -201.3 |
| QUEENSTON | 384.4 | -203.6 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 345.5 | | GRIMSBY |

COUNTY:HALDIMAND TWP:L.ERIE BLOCK:69 TRACT:I LOT: CON:

WELL NAME:PEMBINA #3 L.ERIE 69-I PERMIT NO.:6183 INITIAL CLASS:DEV
OPERATOR :PEMBINA EXPLORATION CO. LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:180.9
BOT: LOG :425.3
ROTRY TOP:44.1 DRILLER:425.0
BOT:425.0 DEEPEND:
DRLG FLD :GEL BARITE PLUGBK :

**DATES**

PERMIT:19830414
START :19830615
COMPTD:19830619
OFFCNF:19830719
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 38 09
LONG :79 41 45

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:Y
BPT RPTS:N

**COMPLETION DATA**

GAS:2.38 103m3/d PRESSURE:4926 kPa
OIL: m3/d
PRODUCING FORMATION:GRIMSBY
PRODUCING INTERVAL :375.3 - 380.8

**SAMPLES**

SAMPLE INTERVAL:129.0 - 425.0 NO. BOTTLES:100
TRAY NUMBERS :2039
MISSNG INTERVAL:

**GENERAL COMMENTS**

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 183.0 | | SHOW | | N |
| 377.0 | | SHOW | | N |
| 380.0 | | SHOW | | N |
| 373.0 | 382.0 | 2.376 | 4926 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 124.0 | CEM | 175 | 0 |
| 193 | 39.3 | 180.6 | CEM | 100 | 0 |
| 114 | 14.1 | 422.4 | CEM | 200 | 0 |
| 60 | 6.0 | 372.4 | HAN | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 41.0 | 410.0 | CNFD | SCHLUMBERGER |
| 181.0 | 423.5 | DLLM | SCHLUMBERGER |
| 41.5 | 415.0 | SONL | SCHLUMBERGER |
| 321.5 | 413.0 | CMPL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 8.2 | 174.70 |
| DRIFT | 44.1 | 136.80 |
| BOIS BLANC | 127.4 | 53.50 |
| BASS ISLANDS | 146.4 | 34.50 |
| G SHALE | 161.7 | 19.20 |
| F SHALE | 167.0 | 13.90 |
| E CARBONATE | 194.3 | -13.40 |
| C SHALE | 226.2 | -45.30 |
| B MARKER | 235.6 | -54.70 |
| B ANHYDRITE | 250.0 | -69.10 |
| A2 CARBONATE | 255.5 | -74.60 |
| A2 SHALE | 265.7 | -84.80 |
| A1 CARBONATE | 269.7 | -88.80 |
| GUELPH | 272.5 | -91.60 |
| ROCHESTER | 339.5 | -158.6 |
| IRONDEQUOIT | 358.7 | -177.8 |
| REYNALES | 360.8 | -179.9 |
| THOROLD | 363.0 | -182.1 |
| GRIMSBY | 364.8 | -183.9 |
| CABOT HEAD | 384.3 | -203.4 |
| WHIRLPOOL | 401.5 | -220.6 |
| QUEENSTON | 404.7 | -223.8 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 373.0 | | GRIMSBY |

COUNTY:HALDIMAND TWP:L.ERIE BLOCK:69 TRACT:N LOT: CON:

WELL NAME:PEMBINA #2 L.ERIE 69-N PERMIT NO.:6184 INITIAL CLASS:DEV
OPERATOR :PEMBINA EXPLORATION CO. LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROTARY DEPTHS.....
CABLE TOP: KB ELEV:181.1
BOT: LOG :432.5
ROTRY TOP:47.0 DRILLER:432.0
BOT:432.5 DEEPEND:
DRLG FLD :GEL CHEM & PLUGBK :419.0

**DATES**

PERMIT:19830414
START :19830621
COMPTD:19830624
OFFCNF:19830724
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 37 42
LONG :79 43 49

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:Y
BPT RPTS:

**COMPLETION DATA**

GAS:6.825 103m3/d PRESSURE:4754 kPa
OIL: m3/d
PRODUCING FORMATION:GRIMSBY
PRODUCING INTERVAL :374.5 - 386.5

**SAMPLES**

SAMPLE INTERVAL:120.0 - 432.0 NO. BOTTLES:103
TRAY NUMBERS :4218
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 122.0 | | SHOW | | N |
| 276.0 | 295.0 | 3.03 | 3099 | N |
| 373.0 | 388.0 | 6.825 | 4754 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273 | 79.5 | 117.2 | CEM | 150 | 0 |
| 193 | 39.3 | 167.5 | CEM | 100 | 0 |
| 114 | 14.1 | 371.6 | CEM | 200 | 0 |
| 60 | 5.95 | 429.5 | HAN | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 25.0 | 431.7 | CNFD | SCHLUMBERGER |
| 325.0 | 418.0 | CMPL | SCHLUMBERGER |
| 168.0 | 430.5 | DLLM | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. $NO_2$ | BOXES | ANAL |
|---|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.4 | 174.70 |
| DRIFT | 47.0 | 134.10 |
| DUNDEE | 99.0 | 82.10 |
| LUCAS | 107.7 | 73.40 |
| AMHERSTBURG | 117.7 | 63.40 |
| BOIS BLANC | 134.2 | 46.90 |
| BASS ISLANDS | 149.3 | 31.80 |
| G SHALE | 166.5 | 14.60 |
| F SHALE | 172.4 | 8.70 |
| E CARBONATE | 194.7 | -13.60 |
| C SHALE | 232.3 | -51.20 |
| B ANHYDRITE | 254.5 | -73.40 |
| A2 CARBONATE | 260.3 | -79.20 |
| A1 CARBONATE | 271.0 | -89.90 |
| A1 ANHYDRITE | 275.2 | -94.10 |
| GUELPH | 280.0 | -98.90 |
| DECEW | 332.8 | -151.7 |
| ROCHESTER | 351.5 | -170.4 |
| REYNALES | 363.2 | -182.1 |
| THOROLD | 367.8 | -186.7 |
| GRIMSBY | 369.7 | -188.6 |
| CABOT HEAD | 389.3 | -208.2 |
| WHIRLPOOL | 406.9 | -225.8 |
| QUEENSTON | 410.8 | -229.7 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 373.0 | | GRIMSBY |
| 407.0 | | WHIRLPOOL |
| 276.0 | | GUELPH |

COUNTY:HALDIMAND TWP:L.ERIE BLOCK:71 TRACT:E LOT: CON:

WELL NAME:PEMBINA #3 L.ERIE 71-E PERMIT NO.:6186 INITIAL CLASS:DEV
OPERATOR :PEMBINA EXPLORATION CO. LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.0
BOT: LOG :431.5
ROTRY TOP:37.0 DRILLER:431.0
BOT:431.7 DEEPEND:
DRLG FLD :GEL BARITE PLUGBK :

**DATES**

PERMIT:19830414
START :19830604
COMPTD:19830608
OFFCNF:19830708
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 39 13
LONG :79 34 47

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:132.0 - 431.0 NO. BOTTLES:99
TRAY NUMBERS :2014
MISSNG INTERVAL:150.0-153.0

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 115.0 | | SHOW | | N |
| 408.0 | | SHOW | | N |
| 405.0 | 412.0 | 1.549 | 5557 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 129.7 | CEM | 200 | |
| 193 | 39.3 | 185.9 | CEM | 125 | |
| 114 | 14.1 | 402.6 | CEM | 200 | |
| 60 | 5.95 | 428.8 | HAN | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 25.0 | 430.7 | CNFD | SCHLUMBERGER |
| 360.0 | 420.0 | CBSC | SCHLUMBERGER |
| 183.0 | 430.7 | DLLM | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.3 | 174.70 |
| DRIFT | 37.0 | 144.00 |
| DUNDEE | 113.4 | 67.60 |
| LUCAS | 114.7 | 66.30 |
| AMHERSTBURG | 127.4 | 53.60 |
| BOIS BLANC | 143.6 | 37.40 |
| BASS ISLANDS | 155.5 | 25.50 |
| G SHALE | 167.3 | 13.70 |
| F SHALE | 174.3 | 6.70 |
| E CARBONATE | 193.7 | -12.70 |
| C SHALE | 232.0 | -51.00 |
| B MARKER | 240.7 | -59.70 |
| B ANHYDRITE | 254.5 | -73.50 |
| A2 CARBONATE | 260.4 | -79.40 |
| A2 ANHYDRITE | 266.0 | -85.00 |
| A1 CARBONATE | 269.5 | -88.50 |
| A1 ANHYDRITE | 272.5 | -91.50 |
| GUELPH | 276.0 | -95.00 |
| DECEW | 330.6 | -149.6 |
| ROCHESTER | 351.3 | -170.3 |
| IRONDEQUOIT | 362.3 | -181.3 |
| REYNALES | 364.8 | -183.8 |
| THOROLD | 367.4 | -186.4 |
| GRIMSBY | 370.5 | -189.5 |
| CABOT HEAD | 389.0 | -208.0 |
| WHIRLPOOL | 404.3 | -223.3 |
| QUEENSTON | 411.2 | -230.2 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 405.0 | | WHIRLPOOL |

COUNTY:HALDIMAND TWP:MOULTON BLOCK: TRACT:4 LOT:7 CON:IV FC

WELL NAME:ROBINS #2 MOULTON 4-7-IV FC PERMIT NO.:6258 INITIAL CLASS:DEV
OPERATOR :CLIFFORD A. ROBINS TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:0.7 KB ELEV:178.5
BOT:208.8 LOG :
ROTRY TOP: DRILLER:208.8
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830610
START :19830602
COMPTD:19830711
OFFCNF:19830811
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:103.0
EAST :
WEST :365.8
LAT :42 56 58
LONG :79 32 32

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS:226.5 103m3/d PRESSURE:827.3 kPa
OIL: m3/d
PRODUCING FORMATION:WHIRLPOOL
PRODUCING INTERVAL :187.0 - 191.1

**SAMPLES**

SAMPLE INTERVAL:25.0 - 208.8 NO. BOTTLES:59
TRAY NUMBERS :1942
MISSNG INTERVAL:156.0-159.0

**GENERAL COMMENTS**

GEOLOGY BY:G.M. CARD

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 187.0 | 187.7 | 1.4155 | 827.3 | N |
| 190.2 | 191.1 | 2.265 | 827.3 | N |
| 147.2 | 148.1 | SHOW | 2758 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|
| 190.2 | 191.1 | SHOW | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 24.9 | | | FRE | N | |
| 37.8 | | 5.5 | SUL | N | |
| 85.6 | | 4.3 | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 219 | 35.7 | 32.9 | BAR | | 0 |
| 137 | 22.3 | 136.2 | PAC | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. | BOXES | ANAL |
|---|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.7 | 177.80 |
| A1 CARBONATE | 25.0 | 153.50 |
| A1 ANHYDRITE | 37.0 | 141.50 |
| GUELPH | 58.0 | 120.50 |
| GOAT ISLAND | 89.0 | 89.50 |
| GASPORT | 116.0 | 62.50 |
| ROCHESTER | 132.0 | 46.50 |
| THOROLD | 147.0 | 31.50 |
| GRIMSBY | 156.0 | 22.50 |
| CABOT HEAD | 168.0 | 10.50 |
| WHIRLPOOL | 186.0 | -7.50 |
| QUEENSTON | 193.0 | -14.50 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:HALDIMAND TWP:S. CAYUGA BLOCK: TRACT:3 LOT:25 CON:IV

WELL NAME:MEADOWS #6 S. CAYUGA 3-25-IV
OPERATOR :MEADOWS, HAROLD A.
PERMIT NO.:5906 INITIAL CLASS:DEV
TARGET SYS:CLI CURRENT STAT.:GS-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :CABLE DEPTHS.....
CABLE TOP: KB ELEV:203.9
BOT: LOG :
ROTRY TOP: DRILLER:250.8
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19820617
START :
COMPTD:19830314
OFFCNF:19830414
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:1320.8
SOUTH:
EAST :
WEST :289.9
LAT :42 53 54
LONG :79 48 07

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:N
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:24.0 - 254.5 NO. BOTTLES:74
TRAY NUMBERS :1860
MISSNG INTERVAL:

**GENERAL COMMENTS**

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|

**LOGGING RECORD**

LOGGED..... LOG

| TOP | BOT | TYPE | LOGGING COMPANY |
|---|---|---|---|

**CORING RECORD**

CORED..... CORE CORE NO.

| TOP | BOT | COND | LCTN | NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.5 | 203.40 |
| F SHALE | 33.0 | 170.90 |
| E CARBONATE | 43.0 | 160.90 |
| C SHALE | 82.0 | 121.90 |
| GUELPH | 128.0 | 75.90 |
| IRONDEQUOIT | 210.0 | -6.10 |
| THOROLD | 213.0 | -9.10 |
| GRIMSBY | 216.0 | -12.10 |
| CABOT HEAD | 232.0 | -28.10 |

**DST RECORDS**

DST INTERVAL

| TOP | BOT | FORMATION |
|---|---|---|

COUNTY:HALTON TWP:NASSAGAWEYA BLOCK: TRACT: LOT:9 CON:VII

WELL NAME:OGS 83-1 NASSAGAWEYA 9-VII PERMIT NO.:6120 INITIAL CLASS:OTH
OPERATOR :ONTARIO GEOLOGICAL SURVEY TARGET SYS:PRE CURRENT STAT.:STRAT-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROTARY DEPTHS.....
CABLE TOP: KB ELEV:305.1
BOT: LOG :
ROTRY TOP:2.3 DRILLER:
BOT:637.9 DEEPEND:
DRLG FLD :SALT PLUGBK :

**DATES**

PERMIT:19830215
START :19830214
COMPTD:19830317
OFFCNF:19840328
WRKOVR:
ABNDND:19830328

**COORDINATES**

NORTH:80.4
SOUTH:
EAST :
WEST :304.7
LAT :43 32 02
LONG :79 57 42

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 2.3 | 302.80 |
| CABOT HEAD | 4.8 | 300.30 |
| MANITOULIN | 24.2 | 280.90 |
| QUEENSTON | 33.8 | 271.30 |
| COBOURG | 437.7 | -132.6 |
| GULL RIVER | 590.6 | -285.5 |
| SHADOW LAKE | 634.9 | -329.8 |
| PRECAMBRIAN | 637.0 | -331.9 |

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL: - NO. BOTTLES:
TRAY NUMBERS :
MISSNG INTERVAL:

**DST RECORDS**

DST INTERVAL
TOP BOT FORMATION

**GENERAL COMMENTS**

BLUE MOUNTAIN 184.7

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10³m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 67 | | 32.9 | CEM | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 25.0 | 433.5 | DIL | SCHLUMBERGER |
| 1.0 | 435.5 | NGRS | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. | BOXES | ANAL |
|---|---|---|---|---|---|---|
| 0 | 637.6 | | COM | | | N |

COUNTY:HURON TWP:GODERICH BLOCK: TRACT:1 LOT:26 CON:II

WELL NAME:MILTON RESOURCES GODERICH 1-26-II PERMIT NO.:6251 INITIAL CLASS:NPW
OPERATOR :MILTON RESOURCES LTD. TARGET SYS:CLI CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:1.2 KB ELEV:212.7
BOT:624.0 LOG :623.8
ROTRY TOP: DRILLER:624.0
BOT: DEEPEND:
DRLG FLD :DRY PLUGBK :

**DATES**

PERMIT:19830512
START :19830524
COMPTD:19830720
OFFCNF:19830720
WRKOVR:
ABNDND:19830728

**COORDINATES**

NORTH:
SOUTH:259.1
EAST :
WEST :7.6
LAT :43 38 26
LONG :81 42 04

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:

PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:40.0 - 624.0 NO. BOTTLES:203
TRAY NUMBERS :7812
MISSNG INTERVAL:112.0-117.0 , 141.0-148.0 ,
152.0-153.0 , 178.0-182.0 ,
242.0-245.0

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 22.0 | | 15.0 | FRE | N | |
| 50.0 | | 45.0 | FRE | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 346.0 | | 40.0 | SHO | | 40.0 |
| 273 | | 109.7 | SHO | | 109.7 |
| 219 | | 255.0 | SHO | | 235.8 |
| 178 | | 315.0 | PAC | | 305.3 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0 | 623.8 | GRNL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. | BOXES | ANAL |
|---|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.2 | 211.50 |
| DUNDEE | 41.0 | 171.70 |
| LUCAS | 60.0 | 152.70 |
| AMHERSTBURG | 107.0 | 105.70 |
| BOIS BLANC | 169.0 | 43.70 |
| BASS ISLANDS | 231.0 | -18.30 |
| G SHALE | 277.0 | -64.30 |
| F SHALE | 289.0 | -76.30 |
| E CARBONATE | 318.0 | -105.3 |
| D SALT | 331.0 | -118.3 |
| C SHALE | 350.0 | -137.3 |
| B MARKER | 359.0 | -146.3 |
| B SALT | 376.0 | -163.3 |
| B ANHYDRITE | 384.0 | -171.3 |
| A2 CARBONATE | 401.0 | -188.3 |
| A2 SALT | 409.0 | -196.3 |
| A1 CARBONATE | 487.0 | -274.3 |
| A1 ANHYDRITE | 525.0 | -312.3 |
| GUELPH | 554.0 | -341.3 |
| GOAT ISLAND | 595.0 | -382.3 |
| GASPORT | 611.0 | -398.3 |
| ROCHESTER | 615.0 | -402.3 |
| REYNALES | 621.0 | -408.3 |
| CABOT HEAD | 622.0 | -409.3 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:HURON TWP:GODERICH BLOCK: TRACT:1 LOT:33 CON:III

WELL NAME:TIPPERARY 6 GODERICH 1-33-III PERMIT NO.:6341 INITIAL CLASS:NPW
OPERATOR :TIPPERARY RESOURCES LTD. TARGET SYS:CLI CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:216.5
BOT: LOG :621.5
ROTRY TOP:2.0 DRILLER:632.8
BOT:632.8 DEEPEND:
DRLG FLD :SALT WATER PLUGBK :

**DATES**

PERMIT:19830914
START :19830909
COMPTD:19830915
OFFCNF:19840915
WRKOVR:
ABNDND:19830916

**COORDINATES**

NORTH:
SOUTH:190.4
EAST :
WEST :61.0
LAT :42 36 56
LONG :81 41 10

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:50.0 - 632.0 NO. BOTTLES:163
TRAY NUMBERS :6433
MISSNG INTERVAL:

**GENERAL COMMENTS**

SAMPLES AND LOGS DO NOT AGREE FROM A1 CARB ON DOWN

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 340 | 81.1 | 48.7 | CEM | 150 | 2.0 |
| 274 | 60.3 | 110.0 | SHO | | 110.0 |
| 178 | 29.8 | 283.3 | CEM | 75 | 83.0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 20.0 | 612.0 | CNFD | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. | NO. BOXES | ANAL |
|---|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 2.0 | 214.50 |
| DUNDEE | 24.8 | 191.70 |
| LUCAS | 42.8 | 173.70 |
| AMHERSTBURG | 113.5 | 103.00 |
| BOIS BLANC | 145.3 | 71.20 |
| BASS ISLANDS | 222.3 | -5.80 |
| G SHALE | 273.5 | -57.00 |
| F SHALE | 281.0 | -64.50 |
| E CARBONATE | 314.4 | -97.90 |
| D SALT | 366.5 | -150.0 |
| C SHALE | 377.3 | -160.8 |
| B MARKER | 396.5 | -180.0 |
| B SALT | 403.0 | -186.5 |
| A2 CARBONATE | 480.5 | -264.0 |
| A2 SALT | 521.7 | -305.2 |
| A2 ANHYDRITE | 541.8 | -325.3 |
| A1 CARBONATE | 544.5 | -328.0 |
| A1 ANHYDRITE | 578.6 | -362.1 |
| GUELPH | 582.3 | -365.8 |
| GOAT ISLAND | 591.7 | -375.2 |
| GASPORT | 602.6 | -386.1 |
| ROCHESTER | 607.5 | -391.0 |
| REYNALES | 610.7 | -394.2 |
| CABOT HEAD | 613.8 | -397.3 |
| MANITOULIN | 616.7 | -400.2 |
| QUEENSTON | 619.4 | -402.9 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:HURON TWP:GODERICH BLOCK: TRACT:2 LOT:37 CON:IX

WELL NAME:TIPPERARY 4 GODERICH 2-37-IX PERMIT NO.:6364 INITIAL CLASS:DEV
OPERATOR :TIPPERARY RESOURCES LTD. TARGET SYS:CAM CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:280.6
BOT: LOG :1135.5
ROTRY TOP:2.0 DRILLER:1134.0
BOT:1134.0 DEEPEND:
DRLG FLD :SALT BRINE PLUGBK :660.0

**DATES**

PERMIT:19831005
START :19831003
COMPTD:19831021
OFFCNF:19831121
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:76.2
SOUTH:
EAST :
WEST :274.3
LAT :43 35 59
LONG :81 37 35

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:62.0 - 1134.0 NO. BOTTLES:344
TRAY NUMBERS :8576-77
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN TOP | INTRVL BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN TOP | INTRVL BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN TOP | INTRVL BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 340 | 81.1 | 58.6 | CEM | 200 | 2.0 |
| 274 | 60.8 | 112.5 | SHO | | 116.5 |
| 178 | 29.8 | 362.2 | CEM | 125 | 2.0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 30.0 | 1134.0 | CNFD | SCHLUMBERGER |
| 375.0 | 1134.0 | LATL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 2.0 | 278.60 |
| DUNDEE | 59.8 | 220.80 |
| LUCAS | 75.9 | 204.70 |
| AMHERSTBURG | 156.0 | 124.60 |
| BOIS BLANC | 205.8 | 74.80 |
| BASS ISLANDS | 255.5 | 25.10 |
| G SHALE | 350.6 | -70.00 |
| F SHALE | 357.3 | -76.70 |
| E CARBONATE | 403.2 | -122.6 |
| C SHALE | 448.7 | -168.1 |
| B MARKER | 454.9 | -174.3 |
| A2 CARBONATE | 475.9 | -195.3 |
| A2 ANHYDRITE | 507.5 | -226.9 |
| A1 CARBONATE | 516.1 | -235.5 |
| A1 ANHYDRITE | 523.0 | -242.4 |
| GUELPH | 526.4 | -245.8 |
| GOAT ISLAND | 591.3 | -310.7 |
| GASPORT | 600.7 | -320.1 |
| ROCHESTER | 615.1 | -334.5 |
| REYNALES | 619.4 | -338.8 |
| CABOT HEAD | 638.2 | -357.6 |
| MANITOULIN | 659.1 | -378.5 |
| QUEENSTON | 668.8 | -388.2 |
| COBOURG | 885.4 | -604.8 |
| VERULAM | 941.3 | -660.7 |
| KIRKFIELD | 985.5 | -704.9 |
| COBOCONK | 1029.3 | -748.7 |
| GULL RIVER | 1039.2 | -758.6 |
| SHADOW LAKE | 1119.4 | -838.8 |
| PRECAMBRIAN | 1124.0 | -843.4 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:HURON TWP:GODERICH BLOCK: TRACT:4 LOT:40 CON:IX

WELL NAME:TIPPERARY 2 GODERICH 4-40-IX PERMIT NO.:6346 INITIAL CLASS:DEV
OPERATOR :TIPPERARY RESOURCES LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:271.5
BOT: LOG :648.3
ROTRY TOP:2.0 DRILLER:649.8
BOT:649.7 DEEPEND:
DRLG FLD :SALT BRINE PLUGBK :

**DATES**

PERMIT:19830914
START :19830923
COMPTD:19830928
OFFCNF:19831028
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:219.5
SOUTH:
EAST :30.5
WEST :
LAT :43 35 23
LONG :81 37 58

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:68.0 - 643.0 NO. BOTTLES:191
TRAY NUMBERS :8203
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 479.0 | 548.0 | 0.34 | | N |
| 479.0 | 595.0 | 28 | | N |
| 479.0 | 549.0 | 22 | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 340 | 81.1 | 64.0 | CEM | 200 | 2.0 |
| 274 | 60.3 | 99.3 | SHO | | 99.3 |
| 178 | 29.8 | 347.4 | CEM | 75 | 2.0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 347.0 | 647.0 | CNFD | SCHLUMBERGER |
| 347.0 | 647.0 | LATL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 2.0 | 269.50 |
| DUNDEE | 68.7 | 202.80 |
| LUCAS | 90.2 | 181.30 |
| AMHERSTBURG | 170.3 | 101.20 |
| BOIS BLANC | 202.4 | 69.10 |
| BASS ISLANDS | 288.2 | -16.70 |
| G SHALE | 350.4 | -78.90 |
| F SHALE | 358.6 | -87.10 |
| E CARBONATE | 393.6 | -122.1 |
| C SHALE | 430.1 | -158.6 |
| B MARKER | 438.6 | -167.1 |
| B ANHYDRITE | 452.2 | -180.7 |
| A2 CARBONATE | 453.3 | -181.8 |
| A2 ANHYDRITE | 476.6 | -205.1 |
| A1 CARBONATE | 479.2 | -207.7 |
| GUELPH | 497.6 | -226.1 |
| GOAT ISLAND | 616.0 | -344.5 |
| GASPORT | 625.0 | -353.5 |
| ROCHESTER | 629.2 | -357.7 |
| REYNALES | 632.5 | -361.0 |
| CABOT HEAD | 635.6 | -364.1 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:HURON TWP:STANLEY BLOCK: TRACT:2 LOT:10 CON:X

WELL NAME:HURON #5 STANLEY 2-10-X PERMIT NO.:6322 INITIAL CLASS:NPW
OPERATOR :STANLEY REEF RESOURCES LTD. TARGET SYS:CLI CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:257.0
BOT: LOG :602.7
ROTRY TOP:2.0 DRILLER:604.0
BOT:604.0 DEEPEND:
DRLG FLD :SALT WATER PLUGBK :

**DATES**

PERMIT:19830813
START :19830826
COMPTD:19830831
OFFCNF:19840831
WRKOVR:
ABNDND:19830901

**COORDINATES**

NORTH:
SOUTH:133.4
EAST :
WEST :266.7
LAT :42 29 38
LONG :81 27 50

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:52.0 - 604.0 NO. BOTTLES:174
TRAY NUMBERS :4222
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN TOP | INTRVL BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN TOP | INTRVL BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN TOP | INTRVL BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 340 | 81.1 | 50.4 | CEM | 175 | 2.0 |
| 274 | 60.3 | 89.0 | SHO | | 89.0 |
| 178 | 29.8 | 275.5 | CEM | 75 | 158.0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 275.0 | 602.0 | GRNL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 2.0 | 255.00 |
| DUNDEE | 48.7 | 203.30 |
| LUCAS | 58.3 | 198.70 |
| AMHERSTBURG | 100.1 | 156.90 |
| BOIS BLANC | 159.4 | 97.60 |
| BASS ISLANDS | 215.2 | 41.80 |
| G SHALE | 268.3 | -11.30 |
| F SHALE | 276.4 | -19.40 |
| E CARBONATE | 308.3 | -51.30 |
| D SALT | 351.2 | -94.20 |
| C SHALE | 367.0 | -110.0 |
| B MARKER | 383.4 | -126.4 |
| B SALT | 390.0 | -133.0 |
| B ANHYDRITE | 466.2 | -209.2 |
| A2 CARBONATE | 467.4 | -210.4 |
| A2 SHALE | 505.5 | -248.5 |
| A2 ANHYDRITE | 522.8 | -265.8 |
| A1 CARBONATE | 525.4 | -268.4 |
| A1 ANHYDRITE | 560.7 | -303.7 |
| GUELPH | 565.0 | -308.0 |
| GOAT ISLAND | 573.0 | -316.0 |
| GASPORT | 583.3 | -326.3 |
| ROCHESTER | 588.1 | -331.1 |
| REYNALES | 591.8 | -334.8 |
| CABOT HEAD | 594.8 | -337.8 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:HURON TWP:STANLEY BLOCK: TRACT:3 LOT:7 CON:XI

WELL NAME:HURON #4 STANLEY 3-7-XI PERMIT NO.:6307 INITIAL CLASS:DEV
OPERATOR :STANLEY REEF RESOURCES LTD. TARGET SYS:SAL CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:264.5
BOT: LOG :574.7
ROTRY TOP:2.0 DRILLER:576.0
BOT:576.0 DEEPEND:
DRLG FLD :SALT BRINE PLUGBK :

**DATES**

PERMIT:19830805
START :19830808
COMPTD:19830817
OFFCNF:19830917
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:354.4
SOUTH:
EAST :269.1
WEST :
LAT :43 28 54
LONG :81 38 50

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS:169.4 103m3/d PRESSURE:2776 kPa
OIL: m3/d
PRODUCING FORMATION:GUELPH
PRODUCING INTERVAL :497.0 - 576.0

**SAMPLES**

SAMPLE INTERVAL:103.0 - 571.0 NO. BOTTLES:151
TRAY NUMBERS :1971
MISSNG INTERVAL:280.0-289.0 , 292.0-298.0

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 497.0 | 576.0 | 169.4 | 2776 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 60 | 7.0 | 573.2 | OTH | | 1.0 |
| 115 | 14.1 | 497.6 | CEM | 250 | 2.0 |
| 178 | 29.8 | 289.7 | CEM | 150 | 2.0 |
| 274 | 60.3 | 128.4 | SHO | | 128.4 |
| 340 | 71.4 | 101.0 | CEM | 290 | 2.0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 35.0 | 574.0 | CNFD | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 2.0 | 262.50 |
| DUNDEE | 69.8 | 194.70 |
| LUCAS | 103.4 | 161.10 |
| AMHERSTBURG | 147.6 | 116.90 |
| BOIS BLANC | 172.0 | 92.50 |
| BASS ISLANDS | 247.0 | 17.50 |
| G SHALE | 284.0 | -19.50 |
| F SHALE | 292.1 | -27.60 |
| E CARBONATE | 325.0 | -60.50 |
| C SHALE | 375.8 | -111.3 |
| B MARKER | 387.4 | -122.9 |
| B SALT | 404.0 | -139.5 |
| B ANHYDRITE | 445.0 | -180.5 |
| A2 CARBONATE | 449.1 | -184.6 |
| A2 ANHYDRITE | 451.0 | -186.5 |
| A1 CARBONATE | 466.0 | -201.5 |
| GUELPH | 493.0 | -228.5 |
| GOAT ISLAND | 550.0 | -285.5 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:KENT TWP:CAMDEN BLOCK: TRACT:1-8 LOT:6 CON:III

WELL NAME:STRATHBURN CAMDEN 1-8-6-III PERMIT NO.:8374 INITIAL CLASS:OTH
OPERATOR :STRATHBURN PETROLEUM LTD. TARGET SYS:DEV CURRENT STAT.:STRAT-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:187.3
BOT: LOG :139.3
ROTRY TOP:1.1 DRILLER:140.0
BOT:140.0 DEEPEND:
DRLG FLD :FORM.WATER PLUGBK :

**DATES**

PERMIT:19831026
START :19831019
COMPTD:19831020
OFFCNF:19841020
WRKOVR:
ABNDND:19831028

**COORDINATES**

NORTH:251.5
SOUTH:
EAST :
WEST :76.2
LAT :42 33 23
LONG :82 03 54

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.1 | 186.20 |
| KETTLE POINT | 16.0 | 171.30 |
| HAMILTON | 19.0 | 168.30 |
| DUNDEE | 98.5 | 90.80 |
| LUCAS | 130.7 | 56.60 |

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:10.5 - 138.0 NO. BOTTLES:41
TRAY NUMBERS :2056
MISSNG INTERVAL:

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

**GENERAL COMMENTS**

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 49.0 | | | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 107.5 | | | SUL | N | |
| 139.0 | | | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 139.7 | 20.8 | 21.9 | CEM | 16 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0.0 | 137.0 | GRNL | COMPUTALOG |
| 93.0 | 139.0 | DENL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

COUNTY:KENT TWP:CAMDEN BLOCK: TRACT:2 LOT:14 CON:A

WELL NAME:A-P STEVENSON CAMDEN 2-2-14-A PERMIT NO.:5821 INITIAL CLASS:OTH
OPERATOR :C. STEVENSON DRILLING LTD. TARGET SYS:DEV CURRENT STAT.:OBSR

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:0.2 KB ELEV:187.4
BOT:204.0 LOG :
ROTRY TOP: DRILLER:204.0
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19820402
START :19820527
COMPTD:19830208
OFFCNF:19840208
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:175.8
EAST :76.1
WEST :
LAT :42 33 40
LONG :81 59 56

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | DEPTH TOP | DEPTH ELEV |
|---|---|---|
| DRIFT | 0.2 | 187.20 |
| HAMILTON | 19.2 | 168.20 |
| DUNDEE | 93.3 | 94.10 |
| AMHERSTBURG | 183.8 | 3.60 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:145.0 - 204.2 NO. BOTTLES:22
TRAY NUMBERS :9597
MISSNG INTERVAL:

**GENERAL COMMENTS**

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|
| 102 | 105 | 0.79 | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 278 | 60 | 80.0 | SHO | | 0 |
| 178 | 30 | 96.0 | CEM | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

COUNTY:KENT TWP:CAMDEN BLOCK: TRACT:2-11 LOT:4 CON:I

WELL NAME:STRATHBURN CAMDEN 2-11-4-A PERMIT NO.:6375 INITIAL CLASS:OTH
OPERATOR :STRATHBURN PETROLEUM LTD. TARGET SYS:DEV CURRENT STAT.:STRAT-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:185.8
BOT: LOG :149.0
ROTRY TOP:1.1 DRILLER:153.3
BOT:153.3 DEEPEND:
DRLG FLD :FORM.WATER PLUGBK :

**DATES**

PERMIT:19831026
START :19831022
COMPTD:19831024
OFFCNF:19841024
WRKOVR:
ABNDND:19831030

**COORDINATES**

NORTH:
SOUTH:225.2
EAST :82.8
WEST :
LAT :42 31 26
LONG :82 03 10

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | DEPTH TOP | DEPTH ELEV |
|---|---|---|
| DRIFT | 1.1 | 184.70 |
| HAMILTON | 60.0 | 125.80 |
| DUNDEE | 89.0 | 96.80 |
| LUCAS | 123.8 | 62.00 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:49.6 - 153.3 NO. BOTTLES:34
TRAY NUMBERS :2134
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 139.7 | 20.8 | 37.5 | CEM | 22 | |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|
| 92.3 | | SHOW | | N |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0.0 | 147.5 | GRNL | COMPUTALOG |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 19.2 | 46.8 | | FRE | N | |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

COUNTY:KENT TWP:CAMDEN BLOCK: TRACT:2-4 LOT:14 CON:A

WELL NAME:A-P STEVENSON CAMDEN 2-4-14-A PERMIT NO.:6053 INITIAL CLASS:DEV
OPERATOR :STEVENSON DRILLING LTD. TARGET SYS:DEV CURRENT STAT.:OP

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:0.2 KB ELEV:185.8
BOT:104.0 LOG :
ROTRY TOP: DRILLER:104.0
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19821103
START :19830210
COMPTD:19830210
OFFCNF:19830310
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:465.5
EAST :
WEST :227.0
LAT :42 33 38
LONG :81 59 42

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:DUNDEE
PRODUCING INTERVAL :95.0 - 104.0

**SAMPLES**

SAMPLE INTERVAL: - NO. BOTTLES:
TRAY NUMBERS :
MISSNG INTERVAL:

**GENERAL COMMENTS**

DEEPENED

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 178 | 30 | 93.0 | | | 0 |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 95 | 99 | 1.9 | | N |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 18.0 | | 5.0 | FRE | N | |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.2 | 185.60 |
| HAMILTON | 19.8 | 166.00 |
| DUNDEE | 94.5 | 91.30 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:KENT TWP:CAMDEN BLOCK: TRACT:2-7 LOT:8 CON:II

WELL NAME:STRATHBURN CAMDEN 2-7-8-II PERMIT NO.:6376 INITIAL CLASS:OTH
OPERATOR :STRATHBURN PETROLEUM LTD. TARGET SYS:DEV CURRENT STAT.:STRAT-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:187.5
BOT: LOG :147.0
ROTRY TOP:1.1 DRILLER:147.2
BOT:147.0 DEEPEND:
DRLG FLD :FORM.WATER PLUGBK :

**DATES**

PERMIT:19831026
START :19831021
COMPTD:19831027
OFFCNF:19841027
WRKOVR:
ABNDND:19831028

**COORDINATES**

NORTH:245.4
SOUTH:
EAST :76.2
WEST :
LAT :42 33 07
LONG :82 02 50

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.1 | 186.40 |
| KETTLE POINT | 14.4 | 173.10 |
| HAMILTON | 17.3 | 170.20 |
| DUNDEE | 92.3 | 95.20 |
| LUCAS | 128.8 | 58.70 |

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:19.1 - 128.9 NO. BOTTLES:36
TRAY NUMBERS :2122
MISSNG INTERVAL:

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

**GENERAL COMMENTS**

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 129.0 | | 46.0 | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 139.7 | 20.8 | 19.5 | CEM | 12 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0.0 | 144.8 | GRNL | COMPUTALOG |
| 89.7 | 147.0 | DENL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

COUNTY:KENT TWP:CAMDEN BLOCK: TRACT:3 LOT:6 CON:III

WELL NAME:STRATHBURN CAMDEN 3-3-6-III PERMIT NO.:6396 INITIAL CLASS:OTH
OPERATOR :STRATHBURN PETROLEUM LTD. TARGET SYS:DEV CURRENT STAT.:STRAT-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:0.4 KB ELEV:184.9
BOT:124.5 LOG :112.0
ROTRY TOP: DRILLER:125.0
BOT: DEEPEND:
DRLG FLD :FORM.WATER PLUGBK :

**DATES**

PERMIT:19831123
START :19831113
COMPTD:19831122
OFFCNF:19841122
WRKOVR:
ABNDND:19831126

**COORDINATES**

NORTH:
SOUTH:586.7
EAST :76.2
WEST :
LAT :42 33 25
LONG :82 04 26

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.4 | 184.50 |
| KETTLE POINT | 14.0 | 170.90 |
| HAMILTON | 18.0 | 166.90 |
| DUNDEE | 88.0 | 96.90 |
| COLUMBUS | 119.0 | 65.90 |

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:16.0 - 125.0 NO. BOTTLES:41
TRAY NUMBERS :2376
MISSNG INTERVAL:

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 11.0 | 15.0 | | FRE | N | |
| 121.0 | | | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 219.1 | 35.7 | 16.0 | SHO | | 16.0 |
| 139.7 | 20.8 | 116.0 | SHO | | 116.0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0.0 | 110.0 | GRNL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

COUNTY:KENT TWP:CAMDEN GORE BLOCK: TRACT:1-6 LOT:2 CON:XI

WELL NAME:STRATHBURN CAMDEN GORE 1-6-2-XI PERMIT NO.:6360 INITIAL CLASS:OTH
OPERATOR :STRATHBURN PETROLEUM LTD. TARGET SYS:DEV CURRENT STAT.:STRAT-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:186.3
BOT: LOG :177.5
ROTRY TOP:1.1 DRILLER:177.7
BOT:177.5 DEEPEND:
DRLG FLD :FORM.WATER PLUGBK :

**DATES**

PERMIT:19831101
START :19831028
COMPTD:19831029
OFFCNF:19841029
WRKOVR:
ABNDND:19831030

**COORDINATES**

NORTH:
SOUTH:231.7
EAST :586.1
WEST :
LAT :42 34 46
LONG :82 04 22

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | DEPTH TOP | DEPTH ELEV |
|---|---|---|
| DRIFT | 1.1 | 185.20 |
| KETTLE POINT | 10.0 | 176.30 |
| HAMILTON | 51.3 | 135.00 |
| DUNDEE | 128.8 | 57.50 |
| COLUMBUS | 157.5 | 28.80 |
| LUCAS | 161.4 | 24.90 |

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:10.0 - 177.7 NO. BOTTLES:52
TRAY NUMBERS :2109
MISSNG INTERVAL:

**DST RECORDS**

| DST INTERVAL TOP | DST INTERVAL BOT | FORMATION |
|---|---|---|

**GENERAL COMMENTS**

COLUMBUS FACIES PRESENT

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | PRODN INTRVL BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | PRODN INTRVL BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | PRODN INTRVL BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 163.0 | | 106.0 | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 139.7 | 20.8 | 34.0 | CEM | 16 | |

**LOGGING RECORD**

| LOGGED..... TOP | LOGGED..... BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0.0 | 174.5 | GRNL | COMPUTALOG |
| 124.5 | 177.0 | DENL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | CORED..... BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

COUNTY:KENT TWP:CAMDEN GORE BLOCK: TRACT:3-2 LOT:3 CON:X

WELL NAME:STRATHBURN CAMDEN GORE 3-2-3-X PERMIT NO.:6378 INITIAL CLASS:OTH
OPERATOR :STRATHBURN PETROLEUM LTD. TARGET SYS:DEV CURRENT STAT.:STRAT-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:187.5
BOT: LOG :177.5
ROTRY TOP:1.1 DRILLER:177.7
BOT:177.7 DEEPEND:
DRLG FLD :FORM.WATER PLUGBK :

**DATES**

PERMIT:19831101
START :19831025
COMPTD:19831026
OFFCNF:19841026
WRKOVR:
ABNDND:19831028

**COORDINATES**

NORTH:
SOUTH:76.2
EAST :
WEST :251.1
LAT :42 35 12
LONG :82 04 58

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.1 | 186.40 |
| KETTLE POINT | 18.7 | 168.80 |
| HAMILTON | 31.4 | 156.10 |
| DUNDEE | 123.7 | 63.80 |
| LUCAS | 160.6 | 26.90 |

**DST RECORDS**

DST INTERVAL
TOP BOT FORMATION

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:

PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:11.5 - 162.4 NO. BOTTLES:50
TRAY NUMBERS :2059
MISSNG INTERVAL:162.4-165.5 (BAG MARKED NO RETURN)

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 165.0 | | | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 139.7 | 20.8 | 29.0 | CEM | 15 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 1.0 | 175.2 | GRNL | COMPUTALOG |
| 119.5 | 177.0 | DENL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

COUNTY:KENT TWP:DOVER BLOCK: TRACT:8 LOT:1 CON:II W

WELL NAME:FRANCISCO ET AL DOVER 8-1-II W PERMIT NO.:6254 INITIAL CLASS:DEV
OPERATOR :FRANCISCO PETROLEUM ENTERPRISES TARGET SYS:ORD CURRENT STAT.:OP-GS

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:1.2 KB ELEV:177.0
BOT:1031.0 LOG :1031.4
ROTRY TOP: DRILLER:1027.0
BOT: DEEPEND:
DRLG FLD :OIL & WATR PLUGBK :1013.5

**DATES**

PERMIT:19830524
START :19830815
COMPTD:19831115
OFFCNF:19831215
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:118.8
EAST :384.1
WEST :
LAT :42 21 10
LONG :82 22 14

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:Y
BPT RPTS:N

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m³/d
PRODUCING FORMATION:KIRKFIELD
PRODUCING INTERVAL :996.7 - 998.8

**SAMPLES**

SAMPLE INTERVAL:28.0 - 1029.0 NO. BOTTLES:329
TRAY NUMBERS :8692-93
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 915.0 | 918.0 | | | N |
| 957.0 | 961.0 | 1.7 | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m³/d) | DENSITY (kg/m³) | ANAL |
|---|---|---|---|---|
| 999.8 | 1002.8 | | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 21.0 | 28.0 | | FRE | N | |
| 133.0 | 137.0 | 25.0 | SUL | N | |
| 582.0 | 585.0 | 300.0 | SUL | N | |
| 1023.0 | | | SAL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING.....DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 339.7 | 71.4 | 27.6 | SHO | | |
| 273.1 | 60.3 | 95.0 | SHO | | |
| 219.1 | 35.7 | 342.5 | PAC | | |
| 177.8 | 29.7 | 604.5 | CEM | 25 | 510.4 |
| 139.7 | 20.8 | 1025.7 | CEM | 60 | |

**LOGGING RECORD**

| LOGGED.....TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 550.0 | 1031.4 | GRNL | COMPUTALOG |
| 815.0 | 1032.0 | CBND | COMPUTALOG |

**CORING RECORD**

| CORED.....TOP | BOT | COND | CORE LCTN | CORE NO. | BOXES | ANAL |
|---|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH....TOP | ELEV |
|---|---|---|
| DRIFT | 1.2 | 175.80 |
| HAMILTON | 28.0 | 149.00 |
| DUNDEE | 93.0 | 84.00 |
| BOIS BLANC | 218.0 | -41.00 |
| BASS ISLANDS | 280.0 | -103.0 |
| G SHALE | 344.0 | -167.0 |
| F SHALE | 353.0 | -176.0 |
| C SHALE | 425.0 | -248.0 |
| A2 CARBONATE | 480.0 | -283.0 |
| A2 ANHYDRITE | 494.0 | -317.0 |
| A1 CARBONATE | 497.0 | -320.0 |
| GUELPH | 516.0 | -339.0 |
| GOAT ISLAND | 540.0 | -363.0 |
| GASPORT | 574.5 | -397.5 |
| DECEW | 595.0 | -418.0 |
| REYNALES | 603.0 | -426.0 |
| CABOT HEAD | 604.5 | -427.5 |
| MANITOULIN | 645.0 | -468.0 |
| QUEENSTON | 655.0 | -478.0 |
| COBOURG | 882.5 | -705.5 |
| VERULAM | 901.3 | -724.3 |
| KIRKFIELD | 957.0 | -780.0 |
| COBOCONK | 999.8 | -822.8 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:KENT TWP:DOVER E. BLOCK: TRACT:2 LOT:2 CON:III

WELL NAME:PRAIRE #4 DOVER E. 2-2-III PERMIT NO.:6109 INITIAL CLASS:DEV
OPERATOR :FRANCISCO PETROLEUM ENTERPRISES INC. TARGET SYS:CAM CURRENT STAT.:OS-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:1.2 KB ELEV:176.4
BOT:1150.6 LOG :1149.4
ROTRY TOP: DRILLER:1150.6
BOT: DEEPEND:
DRLG FLD : PLUGBK :0

**DATES**

PERMIT:19830215
START :19830417
COMPTD:19830519
OFFCNF:19830619
WRKOVR:
ABNDND:19830620

**COORDINATES**

NORTH:
SOUTH:180.8
EAST :
WEST :469.4
LAT :42 21 12
LONG :82 21 18

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:1012.2 - 1150.6 NO. BOTTLES:83
TRAY NUMBERS :1916
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 1114.3 | | SHOW | | N |
| 1027.5 | 1030.2 | SHOW | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 1030.2 | 1033.3 | SHOW | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 1030.2 | 1033.3 | | | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 140 | | 1011.6 | SHO | | 1000 |
| 168 | | 883.0 | SHO | | 366 |
| 324 | | 27.1 | SHO | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 1011.6 | 1149.4 | DENL | COMPUTALOG |
| 874.8 | 1149.4 | GRNL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| COBOURG | 880.9 | -704.5 |
| VERULAM | 919.0 | -742.6 |
| KIRKFIELD | 957.7 | -781.3 |
| COBOCONK | 1002.8 | -826.4 |
| GULL RIVER | 1037.2 | -860.8 |
| SHADOW LAKE | 1134.5 | -958.1 |
| CAMBRIAN | 1140.9 | -964.5 |
| PRECAMBRIAN | 1143.6 | -967.2 |

**DST RECORDS**

DST INTERVAL
TOP BOT FORMATION

COUNTY:KENT TWP:DOVER E. BLOCK: TRACT:5 LOT:4 CON:V

WELL NAME:ROWE/RAM #3 DOVER 5-4-V E
OPERATOR :E.P. ROWE OIL LTD.
PERMIT NO.:6247 INITIAL CLASS:DEV
TARGET SYS:CAM CURRENT STAT.:OS-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT
CABLE TOP:
BOT:
ROTRY TOP:1.8
BOT:1160.0
DRLG FLD :

DEPTHS.....
KB ELEV:176.7
LOG :
DRILLER:1160.0
DEEPEND:
PLUGBK :

**DATES**

PERMIT:19830512
START :19830510
COMPTD:19830514
OFFCNF:19830614
WRKOVR:
ABNDND:19830518

**COORDINATES**

NORTH:442.6
SOUTH:
EAST :
WEST :195.0
LAT :42 22 35
LONG :82 21 31

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:86.6 - 1157.9 NO. BOTTLES:415
TRAY NUMBERS :8557-8558
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 178 | 29.9 | 602.6 | CEM | 50 | 0 |
| 244 | 53.5 | 84.1 | CEM | 120 | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. | NO. BOXES | ANAL |
|---|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.8 | 174.90 |
| DUNDEE | 86.5 | 90.20 |
| LUCAS | 138.0 | 38.70 |
| AMHERSTBURG | 181.0 | -4.30 |
| BOIS BLANC | 211.0 | -34.30 |
| BASS ISLANDS | 263.0 | -86.30 |
| G SHALE | 309.0 | -132.3 |
| F SHALE | 315.0 | -138.3 |
| E CARBONATE | 364.0 | -187.3 |
| B MARKER | 394.0 | -217.3 |
| B SALT | 446.0 | -269.3 |
| B ANHYDRITE | 461.0 | -284.3 |
| A2 CARBONATE | 470.0 | -293.3 |
| A2 ANHYDRITE | 489.0 | -312.3 |
| A1 CARBONATE | 492.0 | -315.3 |
| GUELPH | 503.5 | -326.8 |
| GOAT ISLAND | 559.0 | -382.3 |
| GASPORT | 574.0 | -397.3 |
| ROCHESTER | 596.0 | -419.3 |
| REYNALES | 598.0 | -421.3 |
| CABOT HEAD | 60.20 | 116.50 |
| MANITOULIN | 635.0 | -458.3 |
| QUEENSTON | 638.0 | -461.3 |
| COBOURG | 862.0 | -685.3 |
| VERULAM | 906.5 | -729.8 |
| KIRKFIELD | 944.6 | -767.9 |
| COBOCONK | 990.3 | -813.6 |
| GULL RIVER | 1024.1 | -847.4 |
| SHADOW LAKE | 1133.0 | -956.3 |
| CAMBRIAN | 1133.8 | -957.1 |
| PRECAMBRIAN | 1135.3 | -958.6 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:KENT TWP:DOVER E. BLOCK: TRACT:8 LOT:5 CON:V

WELL NAME:ROWE/RAM #2 DOVER 8-5-V E
OPERATOR :E.P. ROWE OIL LTD.

PERMIT NO.:6103 INITIAL CLASS:DEV
TARGET SYS:ORD CURRENT STAT.:OBSR-SUS

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB
CABLE TOP:
BOT:
ROTRY TOP:
BOT:
DRLG FLD :

DEPTHS.....
KB ELEV:176.9
LOG :1152.0
DRILLER:1169.0
DEEPEND:
PLUGBK :

**DATES**

PERMIT:19830208
START :19830209
COMPTD:19830222
OFFCNF:19830322
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:45.7
SOUTH:
EAST :
WEST :109.7
LAT :41 22 33
LONG :82 21 07

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:110.0 - 1140.0 NO. BOTTLES:332
TRAY NUMBERS :7840-7841
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 93.0 | | | | N |
| 905.0 | 914.0 | | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 340 | 71.4 | 21.0 | SHO | | 0 |
| 244 | 53.9 | 88.9 | CEM | | 0 |
| 178 | 29.9 | 215.5 | CEM | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 215.0 | 1152.0 | LATL | SCHLUMBERGER |
| 22.0 | 1152.0 | CNFD | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH TOP | ELEV |
|---|---|---|
| DRIFT | 1.8 | 175.10 |
| HAMILTON | 25.4 | 151.50 |
| DUNDEE | 84.4 | 92.50 |
| LUCAS | 119.8 | 57.10 |
| AMHERSTBURG | 188.4 | -11.50 |
| BOIS BLANC | 228.3 | -51.40 |
| BASS ISLANDS | 262.5 | -85.60 |
| G SHALE | 305.5 | -128.6 |
| F SHALE | 312.4 | -135.5 |
| E CARBONATE | 344.6 | -167.7 |
| C SHALE | 387.4 | -210.5 |
| B MARKER | 401.6 | -224.7 |
| B SALT | 413.0 | -236.1 |
| B ANHYDRITE | 453.6 | -276.7 |
| A2 CARBONATE | 456.0 | -279.1 |
| A2 ANHYDRITE | 487.8 | -310.9 |
| A1 CARBONATE | 490.6 | -313.7 |
| GUELPH | 501.4 | -324.5 |
| GOAT ISLAND | 559.3 | -382.4 |
| GASPORT | 575.0 | -398.1 |
| ROCHESTER | 586.7 | -409.8 |
| REYNALES | 594.3 | -417.4 |
| CABOT HEAD | 596.0 | -419.1 |
| MANITOULIN | 626.3 | -449.4 |
| QUEENSTON | 644.7 | -467.8 |
| COBOURG | 866.6 | -689.7 |
| VERULAM | 906.5 | -729.6 |
| KIRKFIELD | 946.7 | -769.8 |
| COBOCONK | 990.1 | -813.2 |
| GULL RIVER | 1022.9 | -846.0 |
| SHADOW LAKE | 1133.5 | -956.6 |
| CAMBRIAN | 1136.3 | -959.4 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:KENT TWP:DOVER EAST BLOCK: TRACT:7 LOT:5 CON:V

WELL NAME:ROWE/RAM #1 DOVER 7-5-V E PERMIT NO.:6059 INITIAL CLASS:NPW
OPERATOR :E.P.ROWE OIL LTD. TARGET SYS:ORD CURRENT STAT.:OP-GS

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB
CABLE TOP:1.5
BCT:1028.0
ROTRY TOP:
BOT:
DRLG FLD :

DEPTHS.....
KB ELEV:176.5
LOG :1028.0
DRILLER:1028.0
DEEPEND:
PLUGBK :1027.0

**DATES**

PERMIT:19821122
START :19821130
COMPTD:19830208
OFFCNF:19840208
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:45.7
SOUTH:
EAST :
WEST :414.5
LAT :42 22 33
LONG :82 21 07

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS:.049 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:GULL RIVER
PRODUCING INTERVAL :1017.5 - 1024.0

**SAMPLES**

SAMPLE INTERVAL:21.0 - 103.0 NO. BOTTLES:331
TRAY NUMBERS :7716-7717
MISSNG INTERVAL:

**GENERAL COMMENTS**

GEOLOGY BY:JAMES LAU

**INITIAL GAS RECORD**

| PRODN TOP | INTRVL BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 1001.0 | 1005.0 | | | N |

**INITIAL OIL RECORD**

| PRODN TOP | INTRVL BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|
| 1012.0 | 1016.0 | | 823.2 | N |
| 1016.0 | 1020.0 | | 823.2 | N |
| 1020.0 | 1027.0 | | 823.2 | N |

**INITIAL WATER RECORD**

| PRODN TOP | INTRVL BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 21.0 | 23.0 | | FRE | N | |
| 122.0 | 125.0 | | SUL | N | |
| 517.0 | 519.0 | | SAL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 340 | 71.4 | 23.0 | SHO | | 0 |
| 273 | 60.3 | 87.3 | SHO | | 0 |
| 219 | 35.7 | 320.6 | PAC | | 314.8 |
| 178 | 29.9 | 600.0 | CEM | | 516.2 |
| 114 | 14.4 | 1024.5 | CEM | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 596.0 | 1025.0 | CNFD | SCHLUMBERGER |
| 598.0 | 1029.0 | DIL | SCHLUMBERGER |
| 598.0 | 1025.0 | CBLK | SCHLUMBERGER |
| 287.0 | 585.0 | SONL | SCHLUMBERGER |
| 287.0 | 590.0 | CNL | SCHLUMBERGER |
| 287.0 | 582.0 | GRL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.5 | 175.00 |
| HAMILTON | 30.0 | 146.50 |
| DUNDEE | 84.0 | 92.50 |
| LUCAS | 122.0 | 54.50 |
| AMHERSTBURG | 177.0 | -0.50 |
| BOIS BLANC | 220.0 | -43.50 |
| BASS ISLANDS | 257.3 | -80.80 |
| G SHALE | 304.7 | -128.2 |
| F SHALE | 311.7 | -135.2 |
| E CARBONATE | 340.0 | -163.5 |
| C SHALE | 387.6 | -211.1 |
| B MARKER | 401.6 | -225.1 |
| B SALT | 419.0 | -242.5 |
| B ANHYDRITE | 454.7 | -278.2 |
| A2 CARBONATE | 458.2 | -281.7 |
| A2 ANHYDRITE | 488.2 | -311.7 |
| A1 CARBONATE | 490.8 | -314.3 |
| GUELPH | 503.0 | -326.5 |
| GOAT ISLAND | 527.0 | -350.5 |
| GASPORT | 574.4 | -397.9 |
| ROCHESTER | 589.0 | -412.5 |
| REYNALES | 595.0 | -418.5 |
| CABOT HEAD | 597.3 | -420.8 |
| MANITOULIN | 631.0 | -454.5 |
| QUEENSTON | 643.8 | -467.3 |
| MEAFORD-DUNDAS | 742.0 | -565.5 |
| COLLINGWOOD | 842.2 | -665.7 |
| COBOURG | 869.2 | -692.7 |
| KIRKFIELD | 949.5 | -773.0 |
| COBOCONK | 994.0 | -817.5 |
| GULL RIVER | 1007.4 | -830.9 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:KENT TWP:HOWARD BLOCK: TRACT:2 LOT:10 CON:XI

WELL NAME:DOW HOWARD 2-10-XI PERMIT NO.:6278 INITIAL CLASS:NPW
OPERATOR :DOW CHEMICAL CANADA INC. TARGET SYS:CAM CURRENT STAT.:OS-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:1.2 KB ELEV:222.5
BOT:1274.0 LOG :1230.7
ROTRY TOP: DRILLER:1274.0
BOT: DEEPEND:
DRLG FLD :OIL PLUGBK :

**DATES**

PERMIT:19830721
START :19830714
COMPTD:19830929
OFFCNF:19840929
WRKOVR:
ABNDND:19831006

**COORDINATES**

NORTH:
SOUTH:110.0
EAST :110.0
WEST :
LAT :42 25 46
LONG :81 52 23

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL:.02 m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:67.0 - 1274.0 NO. BOTTLES:464
TRAY NUMBERS :8287-8289
MISSNG INTERVAL:1012.0-1016.0

**GENERAL COMMENTS**

1. MISSING SAMPLES DUE TO DEPTH CORRECTION 2. BLUE MOUNTAIN 824.3

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 46.0 | | | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 1269.0 | 1272.0 | 0.02 | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 46.0 | | 15.0 | FRE | N | |
| 226.0 | | 40.0 | SUL | N | |
| 575.0 | | 30.0 | SAL | N | |
| 1274.0 | | | SAL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 346 | 71.4 | 69.5 | SHO | | 69.5 |
| 273 | 60.2 | 171.3 | SHO | | 171.3 |
| 219 | 35.7 | 401.4 | CEM | 45 | 293.0 |
| 178 | 34.2 | 667.1 | CEM | 35 | 587.0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 1.0 | 1270.7 | GRNL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. | BOXES | ANAL |
|---|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.2 | 221.30 |
| KETTLE POINT | 67.8 | 154.70 |
| HAMILTON | 91.0 | 131.50 |
| DUNDEE | 169.0 | 53.50 |
| LUCAS | 203.2 | 19.30 |
| AMHERSTBURG | 229.4 | -6.90 |
| BOIS BLANC | 295.0 | -72.50 |
| BASS ISLANDS | 339.8 | -117.3 |
| G SHALE | 382.5 | -160.0 |
| F SHALE | 390.3 | -167.8 |
| E CARBONATE | 421.4 | -198.9 |
| C SHALE | 460.8 | -238.3 |
| B MARKER | 470.5 | -248.0 |
| B SALT | 484.3 | -261.8 |
| A2 CARBONATE | 530.5 | -308.0 |
| A2 SHALE | 549.5 | -327.0 |
| A2 ANHYDRITE | 552.4 | -329.9 |
| A1 CARBONATE | 558.5 | -336.0 |
| GUELPH | 568.7 | -346.2 |
| GOAT ISLAND | 628.0 | -405.5 |
| GASPORT | 639.3 | -416.8 |
| ROCHESTER | 651.5 | -429.0 |
| REYNALES | 661.8 | -439.3 |
| CABOT HEAD | 664.4 | -441.9 |
| MANITOULIN | 703.0 | -480.5 |
| QUEENSTON | 711.5 | -489.0 |
| COBOURG | 999.3 | -776.8 |
| VERULAM | 1037.8 | -815.3 |
| KIRKFIELD | 1084.4 | -861.9 |
| COBOCONK | 1129.2 | -906.7 |
| GULL RIVER | 1172.5 | -950.0 |
| SHADOW LAKE | 1261.5 | -1,039 |
| CAMBRIAN | 1263.8 | -1,041 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:KENT TWP:HOWARD BLOCK: TRACT:4 LOT:6 CON:VIII

WELL NAME:DOW HOWARD 4-6-VIII
OPERATOR :DOW CHEMICAL CANADA INC.

PERMIT NO.:6048 INITIAL CLASS:NPW
TARGET SYS:CAM CURRENT STAT.:GS-OS-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:1.6 KB ELEV:198.1
BOT:1242.0 LOG :1242.5
ROTRY TOP: DRILLER:1242
BOT: DEEPEND:
DRLG FLD :FORM WATER PLUGBK :

**DATES**

PERMIT:19821022
START :19821109
COMPTD:19830120
OFFCNF:19840120
WRKOVR:
ABNDND:19830203

**COORDINATES**

NORTH:
SOUTH:640.1
EAST :
WEST :108.7
LAT :42 26 30
LONG :81 55 20

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:35.0 - 1242.0 NO. BOTTLES:430
TRAY NUMBERS :7698-7700
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 1234.0 | | | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|
| 1234.0 | | .00341 | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 27.0 | | | FRE | N | |
| 167.0 | 169.0 | 21.0 | SUL | N | |
| 555.0 | | 484.0 | SAL | N | |
| 1242.0 | | | SAL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 178 | 34.2 | 639.0 | CEM | 35 | 507.5 |
| 219 | 35.7 | 402.9 | CEM | 50 | 382.9 |
| 273 | 60.2 | 149.0 | SHO | | 122.7 |
| 346 | 71.4 | 35.9 | SHO | | 35.9 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 1.0 | 1242.5 | GRNL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. | BOXES | ANAL |
|---|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.6 | 198.50 |
| KETTLE POINT | 34.6 | 163.50 |
| HAMILTON | 68.3 | 129.80 |
| DUNDEE | 146.7 | 51.40 |
| COLUMBUS | 177.0 | 21.10 |
| LUCAS | 187.0 | 11.10 |
| AMHERSTBURG | 226.3 | -28.20 |
| BOIS BLANC | 271.0 | -72.90 |
| BASS ISLANDS | 317.0 | -118.9 |
| G SHALE | 397.7 | -199.6 |
| F SHALE | 404.5 | -206.4 |
| E CARBONATE | 436.1 | -238.0 |
| C SHALE | 471.3 | -273.2 |
| B MARKER | 478.2 | -280.1 |
| B ANHYDRITE | 494.0 | -295.9 |
| A2 CARBONATE | 504.6 | -306.5 |
| A2 SHALE | 525.2 | -327.1 |
| A2 ANHYDRITE | 528.1 | -330.0 |
| A1 CARBONATE | 530.0 | -331.9 |
| GUELPH | 550.0 | -351.9 |
| GOAT ISLAND | 605.6 | -407.5 |
| GASPORT | 615.0 | -416.9 |
| ROCHESTER | 624.5 | -426.4 |
| REYNALES | 634.0 | -435.9 |
| CABOT HEAD | 636.4 | -438.3 |
| MANITOULIN | 675.0 | -476.9 |
| QUEENSTON | 683.5 | -485.4 |
| COBOURG | 962.3 | -764.2 |
| VERULAM | 983.2 | -785.1 |
| KIRKFIELD | 1025.6 | -827.5 |
| COBOCONK | 1093.5 | -895.4 |
| GULL RIVER | 1139.4 | -941.3 |
| SHADOW LAKE | 1228.0 | -1,029 |
| CAMBRIAN | 1233.7 | -1,035 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:KENT TWP:HOWARD BLOCK: TRACT:4-2 LOT:5 CON:I

WELL NAME:BAILEY 2 HOWARD 4-2-5-I PERMIT NO.:6310 INITIAL CLASS:NPW
OPERATOR :BAILEY GEOLOGICAL SERVICES LTD. TARGET SYS:DEV CURRENT STAT.:OP

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:0.0 KB ELEV:185.7
BOT:106.0 LOG :
ROTRY TOP: DRILLER:106.0
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830817
START :19830806
COMPTD:19831003
OFFCNF:19841003
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:231.7
EAST :226.3
WEST :
LAT :42 30 27
LONG :82 01 12

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:DUNDEE
PRODUCING INTERVAL :103.3 - 103.6

**SAMPLES**

SAMPLE INTERVAL:34.0 - 106.4 NO. BOTTLES:29
TRAY NUMBERS :2108
MISSNG INTERVAL:

**GENERAL COMMENTS**

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|
| 103.3 | 103.6 | | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 103.3 | 103.6 | 70.1 | BRA | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 177.8 | 29.8 | 28.7 | CEM | 12 | |
| 139.7 | 22.3 | 94.7 | SHO | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| KETTLE POINT | 21.3 | 164.40 |
| HAMILTON | 33.5 | 152.20 |
| DUNDEE | 94.5 | 91.20 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:KENT TWP:L.ERIE BLOCK:228 TRACT:X LOT: CON:

WELL NAME:C.W.P. 3 L.ERIE 228 X PERMIT NO.:6287 INITIAL CLASS:DEV
OPERATOR :CONSOLIDATED WEST PETROLEUM LTD. TARGET SYS:CLI CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.1
BOT: LOG :620.5
ROTRY TOP:27.2 DRILLER:621.0
BOT:621.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :

**DATES**

PERMIT:19830704
START :19830718
COMPTD:19830124
OFFCNF:19830824
WRKOVR:
ABNDND:19830725

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 10 00
LONG :82 03 51

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:64.0 - 621.0 NO. BOTTLES:186
TRAY NUMBERS :7892
MISSNG INTERVAL:303.0-306.0

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 68.0 | | | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 273 | | 61.2 | CEM | 75 | |
| 193 | | 304.0 | CEM | 175 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 13.0 | 609.5 | SONL | SCHLUMBERGER |
| 22.0 | 612.7 | CNFD | SCHLUMBERGER |
| 314.7 | 610.8 | LATL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.4 | 174.70 |
| DRIFT | 27.2 | 153.90 |
| DUNDEE | 69.7 | 111.40 |
| LUCAS | 99.6 | 81.50 |
| AMHERSTBURG | 136.5 | 44.60 |
| BOIS BLANC | 178.7 | 2.40 |
| BASS ISLANDS | 213.3 | -32.20 |
| G SHALE | 296.9 | -115.8 |
| F SHALE | 305.7 | -124.6 |
| E CARBONATE | 330.8 | -149.7 |
| C SHALE | 369.6 | -188.5 |
| B MARKER | 405.1 | -224.0 |
| B ANHYDRITE | 420.4 | -239.3 |
| A2 CARBONATE | 425.9 | -244.8 |
| A2 ANHYDRITE | 443.8 | -262.7 |
| A1 CARBONATE | 445.8 | -264.7 |
| GUELPH | 454.9 | -273.8 |
| ROCHESTER | 584.4 | -403.3 |
| REYNALES | 594.0 | -412.9 |
| GRIMSBY | 598.4 | -417.3 |
| CABOT HEAD | 602.8 | -421.7 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 451.0 | | GUELPH |

COUNTY:KENT TWP:L.ERIE BLOCK:229 TRACT:X LOT: CON:

WELL NAME:C.W.P. 2 L.ERIE 229-X PERMIT NO.:6288 INITIAL CLASS:EXT
OPERATOR :CONSOLIDATED WEST PETROLEUM LTD. TARGET SYS:CLI CURRENT STAT.:GS-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:180.7
BOT: LOG :576.0
ROTRY TOP:24.2 DRILLER:575.0
BOT:576.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :

**DATES**

PERMIT:19830704
START :19830719
COMPTD:19830724
OFFCNF:19840724
WRKOVR:
ABNDND:19830725

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 10 56
LONG :82 08 56

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10$^3$m$^3$/d PRESSURE: kPa
OIL: m$^3$/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:58.0 - 575.0 NO. BOTTLES:173
TRAY NUMBERS :5360
MISSNG INTERVAL:

**GENERAL COMMENTS**

1. DST 1 GAS TO SURFACE IMMEDIATELY

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10$^3$m$^3$/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 78.0 | | SHOW | | N |
| 382.0 | | SHOW | | N |
| 418.0 | 435.0 | | 3258 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m$^3$/d) | DENSITY (kg/m$^3$) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 339 | | 55.0 | CEM | 100 | |
| 193 | | 293.9 | CEM | 225 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 24.5 | 569.0 | CNFD | SCHLUMBERGER |
| 285.0 | 572.3 | SONL | SCHLUMBERGER |
| 296.0 | 566.0 | LATL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.0 | 174.70 |
| DRIFT | 24.2 | 156.50 |
| DUNDEE | 87.3 | 93.40 |
| LUCAS | 117.0 | 63.70 |
| AMHERSTBURG | 161.5 | 19.20 |
| BOIS BLANC | 190.0 | -9.30 |
| BASS ISLANDS | 230.0 | -49.30 |
| G SHALE | 280.5 | -99.80 |
| F SHALE | 287.0 | -106.3 |
| E CARBONATE | 313.0 | -132.3 |
| C SHALE | 355.8 | -175.1 |
| B MARKER | 371.7 | -191.0 |
| B ANHYDRITE | 386.3 | -205.6 |
| A2 CARBONATE | 390.7 | -210.0 |
| A2 ANHYDRITE | 410.4 | -229.7 |
| A1 CARBONATE | 412.8 | -232.1 |
| GUELPH | 422.2 | -241.5 |
| ROCHESTER | 541.3 | -360.6 |
| REYNALES | 551.0 | -370.3 |
| GRIMSBY | 553.8 | -373.1 |
| CABOT HEAD | 554.5 | -373.8 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 418.0 | | GUELPH |

COUNTY:KENT TWP:L.ERIE BLOCK:234 TRACT:Y LOT: CON:

WELL NAME:C.W.P. 3 L.ERIE 234-Y PERMIT NO.:6342 INITIAL CLASS:EXT
OPERATOR :CONSOLIDATED WEST PETROLEUM LTD. TARGET SYS:CLI CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:180.7
BOT: LOG :522.5
ROTRY TOP:22.2 DRILLER:522.0
BOT:522.5 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :

**DATES**

PERMIT:19830914
START :19830909
COMPTD:19830915
OFFCNF:19840915
WRKOVR:
ABNDND:19830915

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 05 25
LONG :82 19 42

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:66.0 - 522.0 NO. BOTTLES:152
TRAY NUMBERS :2299
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 70.0 | | | | N |
| 369.0 | 370.0 | | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 369.0 | 370.0 | | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 399.0 | 412.2 | | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 340.0 | 71.4 | 64.7 | CEM | 125 | |
| 194.0 | 29.8 | 265.3 | CEM | 250 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 25.0 | 521.6 | CNFD | SCHLUMBERGER |
| 270.0 | 522.0 | DIPM | SCHLUMBERGER |
| 265.3 | 521.6 | SONL | SCHLUMBERGER |
| 270.0 | 520.0 | LATL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.0 | 174.70 |
| DRIFT | 22.2 | 158.50 |
| HAMILTON | 49.8 | 130.90 |
| DUNDEE | 71.2 | 109.50 |
| LUCAS | 91.5 | 89.20 |
| AMHERSTBURG | 115.0 | 65.70 |
| BOIS BLANC | 140.2 | 40.50 |
| BASS ISLANDS | 190.0 | -9.30 |
| G SHALE | 259.7 | -79.00 |
| F SHALE | 266.5 | -85.80 |
| E CARBONATE | 292.5 | -111.8 |
| C SHALE | 335.7 | -155.0 |
| B ANHYDRITE | 364.0 | -183.3 |
| A2 CARBONATE | 371.5 | -190.8 |
| A2 ANHYDRITE | 390.8 | -210.1 |
| A1 CARBONATE | 394.2 | -213.5 |
| GUELPH | 404.7 | -224.0 |
| DECEW | 503.2 | -322.5 |
| ROCHESTER | 506.4 | -325.7 |
| REYNALES | 511.7 | -331.0 |
| GRIMSBY | 515.7 | -335.0 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 399.0 | | GUELPH |

COUNTY:KENT TWP:L.ERIE BLOCK:289 TRACT:A LOT: CON:

WELL NAME:PEMBINA #1 L.ERIE 289-A PERMIT NO.:8281 INITIAL CLASS:NPW
OPERATOR :PEMBINA EXPLORATIONS CO. LTD. TARGET SYS:CLI CURRENT STAT.:GS-OS-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:180.8
BOT: LOG :501.1
ROTRY TOP:18.5 DRILLER:501.0
BOT:501.0 DEEPEND:
DRLG FLD :SALT BRINE PLUGBK :

**DATES**

PERMIT:19830704
START :19830801
COMPTD:19830806
OFFCNF:19840806
WRKOVR:
ABNDND:19830806

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 04 57
LONG :82 25 01

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:60.0 - 501.0 NO. BOTTLES:147
TRAY NUMBERS :1814
MISSNG INTERVAL:

**GENERAL COMMENTS**

GEOLOGY BY:G.M. CARD

**INITIAL GAS RECORD**

| PRODN TOP | INTRVL BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 76.0 | | | | N |
| 149.0 | | | | N |
| 369.0 | 385.0 | .428 | 3618 | N |

**INITIAL OIL RECORD**

| PRODN TOP | INTRVL BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|
| 61.0 | 69.0 | | | N |
| 87.0 | 98.0 | | | N |
| 369.0 | 385.0 | | | N |

**INITIAL WATER RECORD**

| PRODN TOP | INTRVL BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|
| 369.0 | 385.0 | 261.0 | SAL | N |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 339.0 | 79.4 | 59.78 | CEM | 125 | 0.0 |
| 193.0 | 39.3 | 231.7 | CEM | 75 | 0.0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 231.0 | 500.0 | CNFD | SCHLUMBERGER |
| 231.0 | 500.0 | CBLK | SCHLUMBERGER |
| 231.0 | 500.0 | LATL | SCHLUMBERGER |
| 231.0 | 500.0 | DIPM | SCHLUMBERGER |
| 200.0 | 500.0 | SONL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.1 | 174.70 |
| DRIFT | 16.5 | 164.30 |
| DUNDEE | 42.5 | 138.30 |
| LUCAS | 63.5 | 117.30 |
| AMHERSTBURG | 86.5 | 94.30 |
| BOIS BLANC | 114.0 | 66.80 |
| BASS ISLANDS | 158.0 | 22.80 |
| G SHALE | 229.8 | -49.00 |
| F SHALE | 236.4 | -55.60 |
| E CARBONATE | 262.4 | -81.60 |
| C SHALE | 304.8 | -124.0 |
| B ANHYDRITE | 339.1 | -158.3 |
| A2 CARBONATE | 347.3 | -166.5 |
| A2 ANHYDRITE | 366.3 | -185.5 |
| A1 CARBONATE | 369.2 | -188.4 |
| GUELPH | 374.9 | -194.1 |
| DECEW | 488.2 | -307.4 |
| ROCHESTER | 490.5 | -309.7 |
| REYNALES | 495.2 | -314.4 |
| GRIMSBY | 499.8 | -319.0 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 369.0 | | GUELPH |

COUNTY:KENT TWP:L.ERIE BLOCK:289 TRACT:L LOT: CON:

WELL NAME:PEMBINA #4 L.ERIE 289-L PERMIT NO.:6291 INITIAL CLASS:DEV
OPERATOR :PEMBINA EXPLORATION CO. LTD. TARGET SYS:CLI CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.0
BOT: LOG :491.7
ROTRY TOP:19.2 DRILLER:492.0
BOT:492.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :

**DATES**

PERMIT:19830712
START :19830912
COMPTD:19830922
OFFCNF:19831022
WRKOVR:
ABNDND:19830922

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 02 24
LONG :82 26 01

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:

PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:54.0 - 492.0 NO. BOTTLES:144
TRAY NUMBERS :5300
MISSNG INTERVAL:231.0-234.0 , 420.0-423.0 , 486.0-489.0

**GENERAL COMMENTS**

1. B EQUIVALENT 298.2

GEOLOGY BY:G.M. CARD

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 46.9 | | | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 273 | 48.7 | 46.9 | CEM | 62.5 | |
| 194 | 29.8 | 216.1 | CEM | 200 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 18.0 | 490.8 | CNFD | SCHLUMBERGER |
| 224.0 | 489.3 | LATL | SCHLUMBERGER |
| 215.7 | 490.8 | SONL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.3 | 174.70 |
| DRIFT | 19.2 | 161.80 |
| DUNDEE | 32.5 | 148.50 |
| LUCAS | 66.2 | 114.80 |
| AMHERSTBURG | 92.0 | 89.00 |
| BOIS BLANC | 118.1 | 62.90 |
| BASS ISLANDS | 160.8 | 20.20 |
| G SHALE | 205.4 | -24.40 |
| F SHALE | 212.8 | -31.80 |
| E CARBONATE | 237.3 | -56.30 |
| C SHALE | 279.6 | -98.60 |
| B MARKER | 292.8 | -111.8 |
| B ANHYDRITE | 307.8 | -126.8 |
| A2 CARBONATE | 315.4 | -134.4 |
| A2 ANHYDRITE | 332.2 | -151.2 |
| A1 CARBONATE | 335.3 | -154.3 |
| GUELPH | 343.1 | -162.1 |
| DECEW | 473.7 | -292.7 |
| ROCHESTER | 476.3 | -295.3 |
| REYNALES | 480.5 | -299.5 |
| GRIMSBY | 485.0 | -304.0 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 340.0 | | GUELPH |

COUNTY:KENT TWP:L.ERIE BLOCK:289 TRACT:W LOT: CON:

WELL NAME:PEMBINA #3 L.ERIE 289-W PERMIT NO.:6292 INITIAL CLASS:EXT
OPERATOR :PEMBINA EXPLORATION CO. LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:180.8
BOT: LOG :489.3
ROTRY TOP:18.5 DRILLER:490.0
BOT:490.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :

**DATES**

PERMIT:19830712
START :19830815
COMPTD:19830820
OFFCNF:19840820
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 00 01
LONG :82 27 40

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS:0.54 103m3/d PRESSURE:3390 kPa
OIL: m3/d
PRODUCING FORMATION:A2 CARB
PRODUCING INTERVAL :290.5 - 301.0

**SAMPLES**

SAMPLE INTERVAL:46.0 - 490.0 NO. BOTTLES:148
TRAY NUMBERS :2074
MISSNG INTERVAL:

**GENERAL COMMENTS**

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 290.0 | 302.0 | 0.41 | 3390 | N |
| 313.0 | 326.5 | 0.13 | 3016 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 50.0 | 57.0 | | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 156.0 | 160.0 | | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 340 | 71.4 | 43.6 | CEM | 75 | 0.0 |
| 194 | 39.3 | 189.4 | CEM | 175 | 0.0 |
| 114 | 14.1 | 485.6 | CEM | 225 | 0.0 |
| 60 | 6.0 | 386.3 | HAN | | 0.0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 265.0 | 485.0 | | SCHLUMBERGER |
| 188.0 | 486.0 | LATL | SCHLUMBERGER |
| 188.0 | 486.0 | SONL | SCHLUMBERGER |
| 189.0 | 490.0 | DIPM | SCHLUMBERGER |
| 249.0 | 375.0 | CMPL | SCHLUMBERGER |
| 26.0 | 486.0 | CNFD | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.1 | 174.70 |
| DRIFT | 18.5 | 162.30 |
| DUNDEE | 26.4 | 154.40 |
| LUCAS | 48.4 | 132.40 |
| AMHERSTBURG | 73.3 | 107.50 |
| BOIS BLANC | 96.0 | 84.80 |
| SPRINGVALE | 142.6 | 38.20 |
| BASS ISLANDS | 145.0 | 35.80 |
| G SHALE | 184.6 | -3.80 |
| F SHALE | 191.8 | -11.00 |
| E CARBONATE | 215.9 | -35.10 |
| C SHALE | 252.8 | -72.00 |
| B MARKER | 267.5 | -86.70 |
| B ANHYDRITE | 281.6 | -100.8 |
| A2 CARBONATE | 288.7 | -107.9 |
| A2 ANHYDRITE | 306.0 | -125.2 |
| A1 CARBONATE | 309.8 | -129.0 |
| GUELPH | 315.5 | -134.7 |
| ROCHESTER | 474.7 | -293.9 |
| REYNALES | 480.8 | -300.0 |
| GRIMSBY | 485.6 | -304.8 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 313.0 | | GUELPH |
| 290.0 | | A2 CARBONATE |

COUNTY:KENT TWP:L.ERIE BLOCK:308 TRACT:C LOT: CON:

WELL NAME:PEMBINA #3 L.ERIE 308-C PERMIT NO.:6293 INITIAL CLASS:DEV
OPERATOR :PEMBINA EXPLORATION CO. LTD. TARGET SYS:CLI CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.0
BOT: LOG :482.5
ROTRY TOP:19.1 DRILLER:483.0
BOT:483.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :

**DATES**

PERMIT:19830712
START :19830906
COMPTD:19830910
OFFCNF:19831010
WRKOVR:
ABNDND:19830911

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :41 59 16
LONG :82 27 44

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:50.0 - 483.0 NO. BOTTLES:144
TRAY NUMBERS :2031
MISSNG INTERVAL:

**GENERAL COMMENTS**

1. B EQUIVALENT 289.0

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 193.0 | | | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 193.0 | | | SAL | N | |
| 331.0 | 344.5 | 245.0 | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 273 | 48.8 | 47.2 | CEM | 62.5 | |
| 193 | 29.8 | 203.7 | CEM | 200 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 18.0 | 475.5 | CNFD | SCHLUMBERGER |
| 205.5 | 479.5 | LATL | SCHLUMBERGER |
| 194.5 | 478.5 | SONL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.3 | 174.70 |
| DRIFT | 19.1 | 161.90 |
| DUNDEE | 30.8 | 150.20 |
| LUCAS | 66.2 | 114.80 |
| AMHERSTBURG | 95.0 | 86.00 |
| BOIS BLANC | 118.0 | 63.00 |
| BASS ISLANDS | 155.2 | 25.80 |
| G SHALE | 196.8 | -15.80 |
| F SHALE | 204.0 | -23.00 |
| E CARBONATE | 228.8 | -47.80 |
| C SHALE | 266.0 | -85.00 |
| B MARKER | 283.6 | -102.6 |
| B ANHYDRITE | 299.3 | -118.3 |
| A2 CARBONATE | 304.6 | -123.6 |
| A2 ANHYDRITE | 322.0 | -141.0 |
| A1 CARBONATE | 326.3 | -145.3 |
| GUELPH | 331.5 | -150.5 |
| GOAT ISLAND | 400.8 | -219.8 |
| GASPORT | 435.4 | -254.4 |
| ROCHESTER | 465.0 | -284.0 |
| REYNALES | 471.0 | -290.0 |
| GRIMSBY | 476.2 | -295.2 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 331.0 | | GUELPH |

COUNTY:KENT TWP:L.ERIE BLOCK:353 TRACT:G LOT: CON:

WELL NAME:PEMBINA #1 L.ERIE 353-G PERMIT NO.:6296 INITIAL CLASS:DEV
OPERATOR :PEMBINA ESPLORATIONS CO. LTD. TARGET SYS:CLI CURRENT STAT.:GP-OS

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT
CABLE TOP:
BOT:
ROTRY TOP:17.8
BOT:471.0
DRLG FLD :POLYBRINE

DEPTHS.....
KB ELEV:180.8
LOG :471.0
DRILLER:471.0
DEEPEND:
PLUGBK :455.0

**DATES**

PERMIT:19830712
START :19830807
COMPTD:19830813
OFFCNF:19830913
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :41 53 37
LONG :82 28 03

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:Y
BPT RPTS:N

**COMPLETION DATA**

GAS:1.55 103m3/d PRESSURE:3118 kPa
OIL: m3/d
PRODUCING FORMATION:GUELPH

PRODUCING INTERVAL :319.0 - 325.0

**SAMPLES**

SAMPLE INTERVAL:54.0 - 471.0 NO. BOTTLES:136
TRAY NUMBERS :2144
MISSNG INTERVAL:153.0-156.0 , 162.0-165.0 , 360.0-363.0

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.1 | 174.70 |
| DRIFT | 17.8 | 163.00 |
| DUNDEE | 35.5 | 145.30 |
| LUCAS | 57.6 | 123.20 |
| AMHERSTBURG | 94.7 | 86.10 |
| BOIS BLANC | 111.0 | 69.80 |
| SPRINGVALE | 143.8 | 37.00 |
| BASS ISLANDS | 148.8 | 32.00 |
| G SHALE | 188.8 | -8.00 |
| F SHALE | 198.8 | -18.00 |
| E CARBONATE | 220.8 | -40.00 |
| C SHALE | 261.4 | -80.60 |
| B MARKER | 271.7 | -90.90 |
| B ANHYDRITE | 287.2 | -106.4 |
| A2 CARBONATE | 293.8 | -113.0 |
| A2 ANHYDRITE | 312.0 | -131.2 |
| A1 CARBONATE | 313.8 | -133.0 |
| GUELPH | 319.0 | -138.2 |
| GOAT ISLAND | 397.8 | -217.0 |
| GASPORT | 432.7 | -251.9 |
| ROCHESTER | 459.2 | -278.4 |

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 317.0 | 331.0 | 1.55 | 3118 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 166.0 | | | SAL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 340 | 71.5 | 50.4 | CEM | 100 | 0.0 |
| 194 | 29.8 | 202.8 | CEM | 150 | 0.0 |
| 114 | 14.1 | 465.3 | CEM | 200 | 0.0 |
| 60 | 6.0 | 314.6 | HAN | | 0.0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 265.0 | 465.0 | CBLK | SCHLUMBERGER |
| 198.5 | 467.5 | LATL | SCHLUMBERGER |
| 192.5 | 467.5 | SONL | SCHLUMBERGER |
| 246.5 | 432.0 | CMPL | SCHLUMBERGER |
| 199.0 | 471.5 | DIPM | SCHLUMBERGER |
| 25.0 | 461.0 | CNFD | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | NO. BOXES | ANAL |
|---|---|---|---|---|---|

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 317.0 | | GUELPH |
| 319.0 | | GUELPH |

COUNTY:KENT TWP:L.ERIE BLOCK:353 TRACT:V LOT: CON:

WELL NAME:PEMBINA #1 L.ERIE 353-V PERMIT NO.:6299 INITIAL CLASS:DEV
OPERATOR :PEMBINA EXPLORATION CO. LTD. TARGET SYS:CLI CURRENT STAT.:GS-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:180.7
BOT: LOG :465.9
ROTRY TOP:18.0 DRILLER:465.9
BOT:465.8 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :

**DATES**

PERMIT:19830712
START :19830831
COMPTD:19830909
OFFCNF:19831009
WRKOVR:
ABNDND:19830909

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :41 50 43
LONG :82 26 08

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:54.0 - 465.0 NO. BOTTLES:169
TRAY NUMBERS :4146
MISSNG INTERVAL:

**GENERAL COMMENTS**

1. B EQUIVALENT 274.0

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 56.0 | 60.0 | | | N |
| 294.0 | 309.0 | | 2410 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|
| 56.0 | 60.0 | | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 160.0 | 165.0 | | SAL | N | |
| 317.0 | 333.3 | 72.0 | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 340 | 71.4 | 52.5 | CEM | 100 | |
| 194 | 29.8 | 190.8 | CEM | 200 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 221.0 | 466.0 | DIPM | SCHLUMBERGER |
| 192.0 | 462.0 | LATL | SCHLUMBERGER |
| 182.0 | 462.0 | SONL | SCHLUMBERGER |
| 26.0 | 457.0 | CNFD | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. | BOXES | ANAL |
|---|---|---|---|---|---|---|
| 315.0 | 333.3 | CCF | PRL | 875 | 16 | Y |

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.0 | 174.70 |
| DRIFT | 18.0 | 162.70 |
| LUCAS | 68.5 | 112.20 |
| AMHERSTBURG | 89.7 | 91.00 |
| BOIS BLANC | 104.5 | 76.20 |
| SPRINGVALE | 138.4 | 42.30 |
| BASS ISLANDS | 141.3 | 39.40 |
| G SHALE | 183.5 | -2.80 |
| F SHALE | 193.7 | -13.00 |
| E CARBONATE | 216.0 | -35.30 |
| C SHALE | 260.0 | -79.30 |
| B MARKER | 268.0 | -87.30 |
| B ANHYDRITE | 284.3 | -103.6 |
| A2 CARBONATE | 290.8 | -110.1 |
| A2 ANHYDRITE | 309.5 | -128.8 |
| A1 CARBONATE | 311.5 | -130.8 |
| GUELPH | 319.8 | -139.1 |
| GOAT ISLAND | 388.4 | -207.7 |
| GASPORT | 424.0 | -243.3 |
| ROCHESTER | 448.8 | -268.1 |
| REYNALES | 455.0 | -274.3 |
| GRIMSBY | 459.6 | -278.9 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 317.0 | | GUELPH |
| 294.0 | | A2 CARB |

COUNTY:KENT TWP:ORFORD BLOCK: TRACT:1 LOT:14 CON:V

WELL NAME:DOW ORFORD 1-14-V PERMIT NO.:6358 INITIAL CLASS:NPW
OPERATOR :DOW CHEMICAL CANADA INC. TARGET SYS:CAM CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:1.2 KB ELEV:217.3
BOT:1232.0 LOG :1228.7
ROTRY TOP: DRILLER:1227.0
BOT: DEEPEND:
DRLG FLD :DRY PLUGBK :

**DATES**

PERMIT:
START :19831013
COMPTD:19831220
OFFCNF:19841220
WRKOVR:
ABNDND:19840109

**COORDINATES**

NORTH:
SOUTH:47.2
EAST :193.6
WEST :
LAT :42 31 51
LONG :81 46 31

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:101.0 - 1232.0 NO. BOTTLES:415
TRAY NUMBERS :8574-75
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 58.0 | | 21.0 | FRE | N | |
| 197.0 | | 45.0 | SUL | N | |
| 554.0 | | | SAL | N | |
| 1231.0 | | | SAL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 346 | 71.4 | 101.1 | SHO | | 101.1 |
| 273 | 60.2 | 152.9 | SHO | | 152.9 |
| 219 | 35.7 | 373.8 | CEM | 35 | 264.0 |
| 178 | 34.2 | 627.0 | CEM | 35 | 505.3 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0.0 | 1226.5 | GRNL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. | BOXES | ANAL |
|---|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.2 | 216.10 |
| HAMILTON | 100.0 | 117.30 |
| DUNDEE | 150.0 | 67.30 |
| LUCAS | 200.8 | 16.50 |
| AMHERSTBURG | 231.7 | -14.40 |
| BOIS BLANC | 249.5 | -32.20 |
| BASS ISLANDS | 314.2 | -96.90 |
| G SHALE | 354.4 | -137.1 |
| F SHALE | 366.2 | -148.9 |
| E CARBONATE | 392.6 | -175.3 |
| C SHALE | 427.5 | -210.2 |
| B MARKER | 439.3 | -222.0 |
| B SALT | 450.7 | -233.4 |
| A2 CARBONATE | 495.8 | -278.5 |
| A2 ANHYDRITE | 519.0 | -301.7 |
| A1 CARBONATE | 522.3 | -305.0 |
| GUELPH | 539.3 | -322.0 |
| GOAT ISLAND | 588.8 | -371.5 |
| GASPORT | 604.2 | -386.9 |
| ROCHESTER | 614.3 | -397.0 |
| REYNALES | 623.7 | -406.4 |
| GRIMSBY | 625.0 | -407.7 |
| CABOT HEAD | 638.2 | -420.9 |
| MANITOULIN | 664.6 | -447.3 |
| QUEENSTON | 673.0 | -455.7 |
| COBOURG | 961.5 | -744.2 |
| VERULAM | 1004.5 | -787.2 |
| KIRKFIELD | 1034.0 | -816.7 |
| COBOCONK | 1099.1 | -881.8 |
| GULL RIVER | 1138.6 | -921.3 |
| SHADOW LAKE | 1224.2 | -1,006 |
| CAMBRIAN | 1225.0 | -1,007 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:KENT TWP:ORFORD BLOCK: TRACT:8 LOT:4 CON:SWR

WELL NAME:CONSUMERS 33556 ORFORD 8-4-SWR PERMIT NO.:6065 INITIAL CLASS:NPW
OPERATOR :CONSUMERS GAS TARGET SYS:CAM CURRENT STAT.:OS-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT
CABLE TOP:
BOT:
ROTRY TOP:1.8
BOT:1277.0
DRLG FLD :BRINE

DEPTHS.....
KB ELEV:207.4
LOG :1278.5
DRILLER:1277.1
DEEPEND:
PLUGBK :

**DATES**

PERMIT:19821126
START :19821219
COMPTD:19830118
OFFCNF:19840118
WRKOVR:
ABNDND:19830122

**COORDINATES**

NORTH:107.0
SOUTH:
EAST :
WEST :30.0
LAT :42 29 47
LONG :81 43 41

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:168.0 - 1277.1 NO. BOTTLES:352
TRAY NUMBERS :7704-7705
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 1239.0 | 1245.0 | | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 230.0 | | | FRE | N | |
| 316.0 | | | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 244 | 53.6 | 151.1 | CEM | 35 | 0 |
| 178 | 29.8 | 676.6 | CEM | 30 | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 7.0 | 1273.0 | CNFD | SCHLUMBERGER |
| 681.0 | 1277.0 | DLLM | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.8 | 205.80 |
| KETTLE POINT | 56.2 | 151.20 |
| HAMILTON | 73.0 | 134.40 |
| DUNDEE | 148.3 | 59.10 |
| LUCAS | 200.5 | 6.90 |
| AMHERSTBURG | 220.0 | -12.60 |
| BOIS BLANC | 243.6 | -36.20 |
| BASS ISLANDS | 266.4 | -59.00 |
| G SHALE | 382.5 | -175.1 |
| F SHALE | 388.5 | -181.1 |
| E CARBONATE | 415.0 | -207.6 |
| C SHALE | 457.0 | -249.6 |
| B MARKER | 465.7 | -258.3 |
| B ANHYDRITE | 481.5 | -274.1 |
| A2 CARBONATE | 489.8 | -282.4 |
| A2 ANHYDRITE | 511.0 | -303.6 |
| A1 CARBONATE | 516.4 | -309.0 |
| GUELPH | 526.2 | -318.8 |
| GOAT ISLAND | 548.5 | -341.1 |
| GASPORT | 592.6 | -385.2 |
| ROCHESTER | 602.7 | -395.3 |
| CABOT HEAD | 614.3 | -406.9 |
| MANITOULIN | 653.5 | -446.1 |
| QUEENSTON | 661.5 | -454.1 |
| COBOURG | 961.4 | -754.0 |
| VERULAM | 1002.2 | -794.8 |
| KIRKFIELD | 1050.6 | -843.2 |
| COBOCONK | 1097.1 | -889.7 |
| GULL RIVER | 1123.4 | -916.0 |
| SHADOW LAKE | 1222.2 | -1,014 |
| CAMBRIAN | 1228.2 | -1,020 |
| PRECAMBRIAN | 1252.2 | -1,044 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 1222.0 | | |

COUNTY:KENT TWP:RALEIGH BLOCK: TRACT:2 LOT:10 CON:V

WELL NAME:CONS ET AL 33645 RALEIGH 2-10-V PERMIT NO.:6393 INITIAL CLASS:NPW
OPERATOR :THE CONSUMERS GAS CO. LTD. TARGET SYS:cam CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:178.7
BOT: LOG :1160.0
ROTRY TOP:1.8 DRILLER:1160.0
BOT:1160.0 DEEPEND:
DRLG FLD :SALT BRINE PLUGBK :

**DATES**

PERMIT:19831107
START :19831206
COMPTD:19831212
OFFCNF:19841212
WRKOVR:
ABNDND:19831213

**COORDINATES**

NORTH:
SOUTH:64.9
EAST :
WEST :318.0
LAT :42 20 45
LONG :82 00 45

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:110.0 - 1144.0 NO. BOTTLES:40
TRAY NUMBERS :8684-85
MISSNG INTERVAL:

**GENERAL COMMENTS**

GEOLOGY BY:G.M. CARD

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| | 165.0 | | SUL | N | |
| | 503.0 | | SAL | N | |
| 1141.0 | 1142.0 | | SAL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 244.0 | 54.0 | 107.9 | CEM | 150 | |
| 178.0 | 30.0 | 599.3 | CEM | 275 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 855.0 | 1159.0 | NGRS | SCHLUMBERGER |
| 25.0 | 1159.0 | CNL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. | BOXES | ANAL |
|---|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.8 | 176.90 |
| MARCELLUS | 40.0 | 138.70 |
| DUNDEE | 94.8 | 83.90 |
| LUCAS | 144.0 | 34.70 |
| AMHERSTBURG | 187.0 | -8.30 |
| BOIS BLANC | 231.3 | -52.60 |
| BASS ISLANDS | 250.2 | -71.50 |
| G SHALE | 308.5 | -129.8 |
| F SHALE | 327.2 | -148.5 |
| E CARBONATE | 357.1 | -178.4 |
| C SHALE | 397.1 | -218.4 |
| B MARKER | 406.8 | -228.1 |
| B SALT | 427.0 | -248.3 |
| B ANHYDRITE | 452.0 | -273.3 |
| A2 CARBONATE | 457.0 | -278.3 |
| A2 ANHYDRITE | 484.6 | -305.9 |
| A1 CARBONATE | 486.7 | -308.0 |
| A1 ANHYDRITE | 497.0 | -318.3 |
| GUELPH | 498.0 | -319.3 |
| GOAT ISLAND | 521.5 | -342.8 |
| GASPORT | 570.6 | -391.9 |
| ROCHESTER | 580.8 | -402.1 |
| REYNALES | 588.2 | -409.5 |
| CABOT HEAD | 590.0 | -411.3 |
| MANITOULIN | 629.0 | -450.3 |
| QUEENSTON | 637.7 | -459.0 |
| COBOURG | 863.3 | -684.6 |
| KIRKFIELD | 937.0 | -758.3 |
| COBOCONK | 988.2 | -809.5 |
| GULL RIVER | 1021.0 | -842.3 |
| SHADOW LAKE | 1132.8 | -954.1 |
| CAMBRIAN | 1137.1 | -958.4 |
| PRECAMBRIAN | 1142.0 | -963.3 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:KENT TWP:TILBURY E. BLOCK: TRACT:3 LOT:3 CON:IX

WELL NAME:CONSUMERS 40003 TILBURY E. 3-3-IX PERMIT NO.:6104 INITIAL CLASS:DEV
OPERATOR :CONSUMERS GAS TARGET SYS:SAL CURRENT STAT.:OP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:184.7
BOT: LOG :446.6
ROTRY TOP:1.8 DRILLER:445.0
BOT:446.6 DEEPEND:
DRLG FLD :SALT BRINE PLUGBK :

**DATES**

PERMIT:19830203
START :19830225
COMPTD:19830304
OFFCNF:19830404
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:814.2
SOUTH:
EAST :150.9
WEST :
LAT :42 16 28
LONG :82 17 56

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:A1 CARB-GUELPH
PRODUCING INTERVAL :408.0 - 446.6

**SAMPLES**

SAMPLE INTERVAL:103.0 - 408.0 NO. BOTTLES:100
TRAY NUMBERS :7877
MISSNG INTERVAL:154.0-157.0 , 292.0-295.0

**GENERAL COMMENTS**

**GEOLOGY BY:**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|
| 408.0 | 413.0 | SHOW | | N |
| 413.0 | 446.0 | SHOW | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 244.0 | 54.0 | 98.1 | CEM | 150 | 0 |
| 178.0 | 25.3 | 316.2 | CEM | 150 | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 315.0 | 446.0 | LATL | SCHLUMBERGER |
| 24.0 | 446.0 | SNP | SCHLUMBERGER |
| 24.0 | 446.0 | DENL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. | BOXES | ANAL |
|---|---|---|---|---|---|---|
| 408.0 | 423.0 | CCF | PRL | | | N |
| 423.01 | 438.0 | CCF | PRL | | | N |
| 438.01 | 446.6 | CCF | PRL | | | N |

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.8 | 182.90 |
| HAMILTON | 34.4 | 150.30 |
| DUNDEE | 77.0 | 107.70 |
| LUCAS | 113.6 | 71.10 |
| AMHERSTBURG | 153.7 | 31.00 |
| BOIS BLANC | 197.0 | -12.30 |
| BASS ISLANDS | 221.5 | -36.80 |
| G SHALE | 226.7 | -42.00 |
| F SHALE | 273.6 | -88.90 |
| E CARBONATE | 299.3 | -114.6 |
| C SHALE | 342.3 | -157.6 |
| B ANHYDRITE | 376.3 | -191.6 |
| A2 CARBONATE | 382.2 | -197.5 |
| A2 ANHYDRITE | 400.0 | -215.3 |
| A1 CARBONATE | 402.3 | -217.6 |
| GUELPH | 413.0 | -228.3 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:KENT TWP:TILBURY E. BLOCK: TRACT:4 LOT:3 CON:IX

WELL NAME:CONSUMERS 40005 TILBURY E. 4-3-IX PERMIT NO.:6110 INITIAL CLASS:DEV
OPERATOR :CONSUMERS GAS TARGET SYS:SAL CURRENT STAT.:OP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT
CABLE TOP:
BOT:
ROTRY TOP:1.8
BOT:444.8
DRLG FLD :AIR

DEPTHS.....
KB ELEV:185.2
LOG :443.0
DRILLER:444.8
DEEPEND:
PLUGBK :

**DATES**

PERMIT:19830214
START :19830304
COMPTD:19830307
OFFCNF:19840307
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:848.2
SOUTH:
EAST :461.4
WEST :
LAT :42 16 34
LONG :82 17 47

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:GUELPH
PRODUCING INTERVAL :413.5 - 436.0

**SAMPLES**

SAMPLE INTERVAL:104.0 - 435.0 NO. BOTTLES:99
TRAY NUMBERS :1973
MISSNG INTERVAL:

**GENERAL COMMENTS**

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 443.5 | | SHOW | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 244.0 | 54.0 | 101.0 | CEM | 200 | 0 |
| 178.0 | 25.3 | 315.6 | CEM | 150 | 0 |
| 60.0 | 6.9 | 426.3 | HAN | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 20.0 | 445.0 | SNP | SCHLUMBERGER |
| 20.0 | 438.5 | DENL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.8 | 183.40 |
| DUNDEE | 78.7 | 106.50 |
| LUCAS | 114.4 | 70.80 |
| AMHERSTBURG | 154.2 | 31.00 |
| BOIS BLANC | 200.9 | -15.70 |
| BASS ISLANDS | 225.5 | -40.30 |
| G SHALE | 266.7 | -81.50 |
| F SHALE | 274.0 | -88.80 |
| E CARBONATE | 305.3 | -120.1 |
| C SHALE | 341.7 | -156.5 |
| B MARKER | 362.2 | -177.0 |
| B ANHYDRITE | 376.3 | -191.1 |
| A2 CARBONATE | 382.8 | -197.6 |
| A2 ANHYDRITE | 403.4 | -218.2 |
| A1 CARBONATE | 405.8 | -220.6 |
| GUELPH | 413.4 | -228.2 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:KENT TWP:TILBURY E. BLOCK: TRACT:4 LOT:4 CON:IX

WELL NAME:CONSUMERS 40006 TILBURY E. 4-4-IX PERMIT NO.:6113 INITIAL CLASS:DEV
OPERATOR :CONSUMERS GAS TARGET SYS:SAL CURRENT STAT.:OP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:184.9
BOT: LOG :428.5
ROTRY TOP:1.8 DRILLER:430.0
BOT:430.0 DEEPEND:
DRLG FLD :BRINE PLUGBK :

**DATES**

PERMIT:19830214
START :19830308
COMPTD:19830311
OFFCNF:19830411
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:848.2
SOUTH:
EAST :
WEST :150.9
LAT :42 16 21
LONG :82 18 07

**RECORDS ON FILE**

LOG PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:GUELPH
PRODUCING INTERVAL :410.0 - 430.0

**SAMPLES**

SAMPLE INTERVAL:105.0 - 430.0 NO. BOTTLES:108
TRAY NUMBERS :1857
MISSNG INTERVAL:315.0-318.0

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 414.4 | | SHOW | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 225.0 | | | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 244 | 54.0 | 100.4 | CEM | 200 | 0 |
| 178 | 25.3 | 315.7 | CEM | 150 | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 22.0 | 430.0 | CNFD | SCHLUMBERGER |
| 316.0 | 426.0 | LATL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.8 | 183.10 |
| DUNDEE | 76.3 | 108.60 |
| LUCAS | 115.4 | 69.50 |
| AMHERSTBURG | 154.5 | 30.40 |
| BOIS BLANC | 198.4 | -13.50 |
| BASS ISLANDS | 223.1 | -38.20 |
| G SHALE | 266.2 | -81.30 |
| F SHALE | 273.4 | -88.50 |
| E CARBONATE | 300.7 | -115.8 |
| C SHALE | 341.5 | -156.6 |
| B MARKER | 361.5 | -176.6 |
| B ANHYDRITE | 375.4 | -190.5 |
| A2 CARBONATE | 382.0 | -197.1 |
| A2 ANHYDRITE | 400.7 | -215.8 |
| A1 CARBONATE | 404.0 | -219.1 |
| GUELPH | 413.8 | -228.9 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:KENT TWP:TILBURY E. BLOCK: TRACT:5 LOT:3 CON:IX

WELL NAME:CONSUMERS 40000 TILBURY E. 5-3-IX PERMIT NO.:6096 INITIAL CLASS:DEV
OPERATOR :CONSUMERS GAS TARGET SYS:SAL CURRENT STAT.:OP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:185.5
BOT: LOG :472.0
ROTRY TOP:1.8 DRILLER:472.0
BOT:472.0 DEEPEND:
DRLG FLD :WATER PLUGBK :466.1

**DATES**

PERMIT:19830124
START :19830125
COMPTD:19830130
OFFCNF:
WRKOVR:19830815
ABNDND:

**COORDINATES**

NORTH:503.1
SOUTH:
EAST :
WEST :150.9
LAT :42 16 27
LONG :82 17 38

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:A1 CARB-GUELPH

PRODUCING INTERVAL :412.5 - 442.0

**SAMPLES**

SAMPLE INTERVAL:99.0 - 404.0 NO. BOTTLES:99
TRAY NUMBERS :7703
MISSNG INTERVAL:132.0-135.0 , 261.0-264.0 , 383.0-386.0

**GENERAL COMMENTS**

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 415.0 | 449.7 | | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 148.0 | | | SUL | N | |
| 240.0 | | | SUL | N | |
| 450.0 | | | SAL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 244 | 54.0 | 98.0 | CEM | 150 | 0 |
| 114 | 14.1 | 470.1 | CEM | 133 | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 30.0 | 465.0 | CNFD | SCHLUMBERGER |
| 110.0 | 470.0 | DLLM | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|
| 411.0 | 472.0 | | COM | | Y |

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.8 | 183.70 |
| DUNDEE | 78.5 | 107.00 |
| LUCAS | 115.2 | 70.30 |
| AMHERSTBURG | 155.2 | 30.30 |
| BOIS BLANC | 194.8 | -9.30 |
| BASS ISLANDS | 223.7 | -38.20 |
| G SHALE | 267.0 | -81.50 |
| F SHALE | 273.8 | -88.30 |
| E CARBONATE | 301.1 | -115.6 |
| C SHALE | 352.0 | -166.5 |
| B MARKER | 362.0 | -176.5 |
| B ANHYDRITE | 375.4 | -189.9 |
| A2 CARBONATE | 380.1 | -194.6 |
| A2 ANHYDRITE | 399.0 | -213.5 |
| A1 CARBONATE | 402.3 | -216.8 |
| GUELPH | 416.0 | -230.5 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:KENT TWP:TILBURY E. BLOCK: TRACT:5 LOT:4 CON:IX

WELL NAME:CONSUMERS 40001 TILBURY E. 5-4-IX PERMIT NO.:6097 INITIAL CLASS:DEV
OPERATOR :CONSUMERS GAS TARGET SYS:SAL CURRENT STAT.:OP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT
CABLE TOP:
BOT:
ROTRY TOP:1.8
BOT:458.2
DRLG FLD :BRINE

DEPTHS.....
KB ELEV:184.0
LOG :459.0
DRILLER:458.2
DEEPEND:
PLUGBK :455.1

**DATES**

PERMIT:19830124
START :19830201
COMPTD:19830206
OFFCNF:19840206
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:505.0
EAST :158.8
WEST :
LAT :42 16 13
LONG :82 17 58

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:GUELPH
PRODUCING INTERVAL :409.5 - 434.0

**SAMPLES**

SAMPLE INTERVAL:102.0 - 405.0 NO. BOTTLES:100
TRAY NUMBERS :6805
MISSNG INTERVAL:306.0-309.0

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 409.0 | 450.0 | | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 120.0 | | | FRE | N | |
| 230.0 | | | SUL | N | |
| 450.0 | | | SAL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 244 | 54.0 | 97.2 | CEM | 175 | 0 |
| 178 | 25.3 | 309.6 | HAN | | 0 |
| 114 | 14.1 | 456.9 | CEM | 125 | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 314.0 | 459.0 | LATL | SCHLUMBERGER |
| 21.0 | 460.0 | CNFD | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. | BOXES | ANAL |
|---|---|---|---|---|---|---|
| 407.0 | 438.3 | | COM | | | Y |

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.8 | 182.20 |
| DUNDEE | 75.9 | 108.10 |
| LUCAS | 114.6 | 69.40 |
| AMHERSTBURG | 150.5 | 33.50 |
| BOIS BLANC | 200.9 | -16.90 |
| BASS ISLANDS | 221.4 | -37.40 |
| G SHALE | 264.6 | -80.60 |
| F SHALE | 271.1 | -87.10 |
| E CARBONATE | 301.4 | -117.4 |
| C SHALE | 338.2 | -154.2 |
| B MARKER | 357.7 | -173.7 |
| B ANHYDRITE | 371.4 | -187.4 |
| A2 CARBONATE | 378.3 | -194.3 |
| A2 ANHYDRITE | 396.5 | -212.5 |
| A1 CARBONATE | 401.3 | -217.3 |
| GUELPH | 409.6 | -225.6 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 437.0 | | GUELPH |
| 430.0 | | GUELPH |

COUNTY:KENT TWP:TILBURY E. BLOCK: TRACT:6 LOT:3 CON:IX

WELL NAME:CONSUMERS 40004 TILBURY E. 6-3-IX
OPERATOR :CONSUMERS GAS
PERMIT NO.:6114 INITIAL CLASS:DEV
TARGET SYS:SAL CURRENT STAT.:OP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:185.7
BOT: LOG :427.0
ROTRY TOP:1.8 DRILLER:427.0
BOT:427.8 DEEPEND:
DRLG FLD :AIR PLUGBK :

**DATES**

PERMIT:19830214
START :19830221
COMPTD:19830225
OFFCNF:19830325
WRKOVR:19831014
ABNDND:

**COORDINATES**

NORTH:506.2
SOUTH:
EAST :150.9
WEST :
LAT :42 16 20
LONG :82 17 47

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:A1 CARB-GUELPH
PRODUCING INTERVAL :411.3 - 427.0

**SAMPLES**

SAMPLE INTERVAL:100 - 423 NO. BOTTLES:105
TRAY NUMBERS :1976
MISSNG INTERVAL:202-205 , 414-420

**GENERAL COMMENTS**

GEOLOGY BY:JAMES LAU

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 412.0 | | TRACE | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 134 | | | FRE | N | |
| 225 | | | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 244.0 | 54.0 | 97.1 | CEM | 225 | |
| 178 | 25.3 | 312.7 | CEM | 175 | |
| 60 | 6.9 | 419.0 | HAN | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 49.0 | 427.0 | SNP | SCHLUMBERGER |
| 309.0 | 427.0 | DENL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.8 | 183.90 |
| DUNDEE | 78.8 | 106.90 |
| LUCAS | 117.7 | 68.00 |
| AMHERSTBURG | 154.4 | 31.30 |
| BOIS BLANC | 197.4 | -11.70 |
| BASS ISLANDS | 222.5 | -36.80 |
| G SHALE | 267.0 | -81.30 |
| F SHALE | 273.8 | -88.10 |
| E CARBONATE | 300.4 | -114.7 |
| C SHALE | 340.7 | -155.0 |
| B MARKER | 360.0 | -174.3 |
| B ANHYDRITE | 374.5 | -188.8 |
| A2 CARBONATE | 380.2 | -194.5 |
| A2 ANHYDRITE | 398.7 | -213.0 |
| A1 CARBONATE | 401.7 | -216.0 |
| GUELPH | 415.3 | -229.6 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:KENT TWP:TILBURY E. BLOCK: TRACT:7 LOT:3 CON:IX

WELL NAME:CONSUMERS 40002 TILBURY E. 7-3-IX PERMIT NO.:6105 INITIAL CLASS:DEV
OPERATOR :CONSUMERS GAS TARGET SYS:SAL CURRENT STAT.:OP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:186.3
BOT: LOG :444.2
ROTRY TOP:1.8 DRILLER:445.0
BOT:445.0 DEEPEND:
DRLG FLD :AIR PLUGBK :

**DATES**

PERMIT:19830203
START :19830209
COMPTD:19830220
OFFCNF:19830320
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:169.6
SOUTH:
EAST :150.9
WEST :
LAT :42 16 12
LONG :82 17 37

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAB RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:GUELPH
PRODUCING INTERVAL :410.3 - 437.0

**SAMPLES**

SAMPLE INTERVAL:99.0 - 402.0 NO. BOTTLES:99
TRAY NUMBERS :7038
MISSNG INTERVAL:306.0-312.0

**GENERAL COMMENTS**

GEOLOGY BY:JAMES LAU

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 435.0 | 445.0 | SHOW | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 244 | 54.0 | 96.2 | CEM | 180 | 0 |
| 178 | 25.3 | 310.0 | CEM | 25 | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 7.0 | 446.0 | SNP | SCHLUMBERGER |
| 309.0 | 444.5 | DENL | SCHLUMBERGER |
| 309.0 | 444.5 | GRNL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.8 | 184.50 |
| HAMILTON | 34.3 | 152.00 |
| DUNDEE | 79.0 | 107.30 |
| LUCAS | 118.0 | 68.30 |
| AMHERSTBURG | 154.3 | 32.00 |
| BOIS BLANC | 197.6 | -11.30 |
| BASS ISLANDS | 223.5 | -37.20 |
| G SHALE | 266.6 | -80.30 |
| F SHALE | 273.4 | -87.10 |
| E CARBONATE | 300.8 | -114.5 |
| C SHALE | 341.4 | -155.1 |
| B MARKER | 359.0 | -172.7 |
| B ANHYDRITE | 372.8 | -186.5 |
| A2 CARBONATE | 379.0 | -192.7 |
| A2 ANHYDRITE | 397.2 | -210.9 |
| A1 CARBONATE | 399.8 | -213.5 |
| GUELPH | 410.3 | -224.0 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:KENT TWP:TILBURY E. BLOCK: TRACT:8 LOT:3 CON:IX

WELL NAME:CONSUMERS 40008 TILBURY E. 8-3-IX PERMIT NO.:6112 INITIAL CLASS:DEV
OPERATOR :CONSUMERS GAS CO. LTD. TARGET SYS:SAL CURRENT STAT.:OP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:185.7
BOT: LOG :436.0
ROTRY TOP:1.8 DRILLER:439.0
BOT:439.0 DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830214
START :19830519
COMPTD:19830615
OFFCNF:19830715
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:169.6
SOUTH:
EAST :455.7
WEST :
LAT :42 16 18
LONG :82 17 27

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:GUELPH
PRODUCING INTERVAL :409.0 - 439.0

**SAMPLES**

SAMPLE INTERVAL:97.0 - 420.0 NO. BOTTLES:108
TRAY NUMBERS :1903
MISSNG INTERVAL:266.0-269.0 , 314.0-317.0

**GENERAL COMMENTS**

**GEOLOGY BY:**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 435.0 | 439.0 | SHOW | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 412.9 | 436.0 | | 820.3 | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 244 | 54.0 | 93.0 | CEM | 125 | 0 |
| 178 | 25.3 | 305.2 | CEM | 175 | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 12.0 | 438.0 | CNFD | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.5 | 183.90 |
| MARCELLUS | 34.3 | 151.40 |
| DUNDEE | 79.5 | 106.20 |
| LUCAS | 115.8 | 69.90 |
| AMHERSTBURG | 155.9 | 29.80 |
| BOIS BLANC | 199.0 | -13.30 |
| BASS ISLANDS | 221.0 | -35.30 |
| G SHALE | 269.0 | -83.30 |
| F SHALE | 276.0 | -90.30 |
| E CARBONATE | 301.3 | -115.6 |
| C SHALE | 344.0 | -158.3 |
| B MARKER | 351.0 | -165.3 |
| B ANHYDRITE | 362.0 | -176.3 |
| A2 CARBONATE | 364.8 | -179.1 |
| A2 ANHYDRITE | 375.6 | -189.9 |
| A1 CARBONATE | 384.0 | -198.3 |
| GUELPH | 398.7 | -213.0 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:KENT TWP:TILBURY E. BLOCK: TRACT:8 LOT:4 CON:IX

WELL NAME:CONSUMERS 40007 TILBURY E. 8-4-IX PERMIT NO.:6111 INITIAL CLASS:OTH
OPERATOR :CONSUMERS GAS CO. LTD. TARGET SYS:SAL CURRENT STAT.:INJ

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:185.6
BOT: LOG :422.9
ROTRY TOP:1.8 DRILLER:425.0
BOT:425.0 DEEPEND:540.0
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830214
START :19830516
COMPTD:19830519
OFFCNF:19840519
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:169.6
SOUTH:
EAST :
WEST :153.9
LAT :42 16 05
LONG :82 17 47

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:100.0 - 468.0 NO. BOTTLES:99
TRAY NUMBERS :5705
MISSNG INTERVAL:

**GENERAL COMMENTS**

ALSO SEQUENCE #2, DATE DEEPENED 1983-11-30

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 410.0 | 425.0 | | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 420.0 | | 85.0 | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 244 | 54.0 | 91.0 | CEM | 200 | 0 |
| 178 | 25.3 | 299.2 | CEM | 150 | 0 |
| 114 | 14.1 | 447.0 | PAC | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 10.0 | 424.0 | CNFD | SCHLUMBERGER |
| 290.0 | 455.0 | CNFD | SCHLUMBERGER |
| 293.5 | 459.0 | LATL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.8 | 183.80 |
| MARCELLUS | 30.3 | 155.30 |
| DUNDEE | 75.8 | 109.80 |
| LUCAS | 120.5 | 65.10 |
| AMHERSTBURG | 154.6 | 31.00 |
| BOIS BLANC | 192.3 | -6.70 |
| BASS ISLANDS | 227.6 | -42.00 |
| G SHALE | 264.5 | -78.90 |
| F SHALE | 270.8 | -85.20 |
| E CARBONATE | 298.2 | -112.6 |
| C SHALE | 338.8 | -153.2 |
| B MARKER | 356.4 | -170.8 |
| B ANHYDRITE | 370.0 | -184.4 |
| A2 CARBONATE | 377.6 | -192.0 |
| A2 ANHYDRITE | 395.7 | -210.1 |
| A1 CARBONATE | 396.8 | -211.2 |
| GUELPH | 416.1 | -230.5 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:LAMBTON TWP:BOSANQUET BLOCK: TRACT:1-2 LOT:4 CON:VIII

WELL NAME:KINDON #1 BOSANQUET 1-2-4-VIII PERMIT NO.:6092 INITIAL CLASS:DEV
OPERATOR :490900 ONTARIO LTD. TARGET SYS:DEV CURRENT STAT.:GS-OS-SUS

**DRILLING**

CONTRACTOR:
RIG TYPE :CABLE DEPTHS.....
CABLE TOP:0.3 KB ELEV:228.9
BOT:181.0 LOG :
ROTRY TOP: DRILLER:181.0
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830112
START :19821230
COMPTD:19830131
OFFCNF:19830302
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:271.3
SOUTH:
EAST :
WEST :167.4
LAT :43 06 23
LONG :81 54 43

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | DEPTH TOP | DEPTH ELEV |
|---|---|---|
| DRIFT | 0.3 | 228.60 |
| LUCAS | 161.2 | 67.70 |

**DST RECORDS**

DST INTERVAL
TOP BOT FORMATION

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m³/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:155.8 - 181.2 NO. BOTTLES:24
TRAY NUMBERS :1731
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 65.5 | | | | N |
| 141.7 | | | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m³/d) | DENSITY (kg/m³) | ANAL |
|---|---|---|---|---|
| 118.5 | | | | N |
| 140.2 | | | | N |
| 179.8 | | | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 18.2 | | 9.0 | FRE | N | |
| 153.9 | | 30.0 | | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 139.7 | 25.3 | 33.5 | SHO | | 0 |

**LOGGING RECORD**

LOGGED..... LOG
TOP BOT TYPE LOGGING COMPANY

**CORING RECORD**

CORED..... CORE CORE NO.
TOP BOT COND LCTN NO. BOXES ANAL

COUNTY:LAMBTON TWP:BOSANQUET BLOCK: TRACT:7 LOT:21 CON:SBB

WELL NAME:KINGDON #2 BOSANQUET 4-7-21-SBB PERMIT NO.:6108 INITIAL CLASS:NPW
OPERATOR :490900 ONT. LTD. TARGET SYS:DEV CURRENT STAT.:GS-OS-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :CABLE DEPTHS.....
CABLE TOP:0.3 KB ELEV:232.5
BOT:170.7 LOG :
ROTRY TOP: DRILLER:170.7
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830215
START :19830215
COMPTD:19830329
OFFCNF:19840329
WRKOVR:
ABNDND:19830410

**COORDINATES**

NORTH:93.7
SOUTH:
EAST :153.5
WEST :
LAT :43 05 19
LONG :81 54 49

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.3 | 232.20 |
| DUNDEE | 125.0 | 107.50 |
| LUCAS | 155.8 | 76.70 |

**DST RECORDS**

DST INTERVAL
TOP BOT FORMATION

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:3.0 - 169.2 NO. BOTTLES:44
TRAY NUMBERS :1895
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K.PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 36.6 | | | | N |
| 71.6 | | | 1310 | N |
| 164.5 | | | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 129.0 | 133.0 | | | N |
| 148.0 | 151.0 | | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 4.5 | | 1.2 | FRE | N | |
| 18.0 | | 10.6 | FRE | N | |
| 160.0 | | 91.4 | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. | NO. BOXES | ANAL |
|---|---|---|---|---|---|---|

COUNTY:LAMBTON TWP:BROOKE BLOCK: TRACT:2 LOT:24 CON:X

WELL NAME:RAM 74 BROOKE 2-24-X PERMIT NO.:6355 INITIAL CLASS:NPW
OPERATOR :RAM PETROLEUM LTD. TARGET SYS:DEV CURRENT STAT.:OS-SUS

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:223.8
BOT: LOG :142.7
ROTRY TOP:1.2 DRILLER:142.9
BOT:142.9 DEEPEND:
DRLG FLD :SALT WATER PLUGBK :

**DATES**

PERMIT:19830923
START :19830918
COMPTD:19830920
OFFCNF:19840920
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:74.7
EAST :68.4
WEST :
LAT :42 52 46
LONG :81 49 56

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.2 | 222.60 |
| HAMILTON | 24.0 | 199.80 |
| DUNDEE | 102.8 | 121.00 |

**DST RECORDS**

DST INTERVAL
TOP BOT FORMATION

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:16.8 - 137.2 NO. BOTTLES:39
TRAY NUMBERS :2146
MISSNG INTERVAL:

**GENERAL COMMENTS**

TEMPORARILY SUSPENDED TO SET UP SURFACE TEST EQUIPMENT

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 45.7 | | 1.4 | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 120.4 | | | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 140.0 | 142.9 | 58.0 | BRA | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING DEPTH (m) | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 178 | 52.1 | 28.0 | CEM | 12.5 | |
| 114 | 18.7 | 142.7 | CEM | 150 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 18.5 | 138.0 | CNFD | SCHLUMBERGER |
| 16.0 | 131.0 | DLLM | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

COUNTY:LAMBTON TWP:BROOKE BLOCK: TRACT:3 LOT:2 CON:VIII

WELL NAME:GENERAL DRILL BROOKE 3-3-2-VIII PERMIT NO.:6394 INITIAL CLASS:NPW
OPERATOR :J.E. ENGLISH GENERAL DRILLING AND WELL TARGET SYS:DEV CURRENT STAT.:OP

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:0.0 KB ELEV:210.0
BOT:152.1 LOG :
ROTRY TOP: DRILLER:152.1
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19831109
START :19831031
COMPTD:19831123
OFFCNF:19841123
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:606.6
SOUTH:
EAST :86.9
WEST :
LAT :42 50 51
LONG :81 59 50

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:Y
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| KETTLE POINT | 22.0 | 188.00 |
| HAMILTON | 40.8 | 169.20 |
| DUNDEE | 116.0 | 94.00 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:22.0 - 137.2 NO. BOTTLES:56
TRAY NUMBERS :0071
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 177.0 | | 21.4 | SHO | | |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|
| 114.3 | 115.8 | SHOW | | N |
| 135.6 | 137.0 | SHOW | | N |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0.0 | 150.0 | GRNL | COMPUTALOG |
| 114.6 | 151.8 | DENL | COMPUTALOG |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 20.4 | | | FRE | N | |
| 120.3 | 121.9 | | SUL | N | |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

COUNTY:LAMBTON TWP:BROOKE BLOCK: TRACT:5 LOT:14 CON:XII

WELL NAME:RAM 73 BROOKE 5-14-XII PERMIT NO.:6323 INITIAL CLASS:NPW
OPERATOR :RAM PETROLEUM LTD. TARGET SYS:SAL CURRENT STAT.:OP-GS-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:1.2 KB ELEV:234.1
BOT:631.5 LOG :631.3
ROTRY TOP: DRILLER:630.5
BOT: DEEPEND:
DRLG FLD :SALT BRINE PLUGBK :165.0

**DATES**

PERMIT:19830817
START :19830816
COMPTD:19830929
OFFCNF:19840929
WRKOVR:
ABNDND:19831003

**COORDINATES**

NORTH:
SOUTH:699.0
EAST :304.7
WEST :
LAT :42 53 53
LONG :81 54 14

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL:3.8 m3/d
PRODUCING FORMATION:DUNDEE
PRODUCING INTERVAL :132.0 - 148.0

**SAMPLES**

SAMPLE INTERVAL:29.0 - 630.0 NO. BOTTLES:206
TRAY NUMBERS :8079
MISSNG INTERVAL:460.0-465.0

**GENERAL COMMENTS**

GEOLOGY BY:G.M. CARD

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 524.0 | | | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 129.0 | 144.0 | 1.4 | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 151.0 | | 100.0 | SUL | N | |
| 623.0 | 626.0 | | SAL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 274 | 60.3 | 27.0 | SHO | | |
| 220 | 35.7 | 165.0 | CEM | 75 | |
| 178 | 29.8 | 341.4 | CEM | 25 | 277.2 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 30.0 | 630.5 | CNFD | SCHLUMBERGER |
| 30.0 | 164.0 | DIL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.2 | 232.90 |
| KETTLE POINT | 26.0 | 208.10 |
| HAMILTON | 49.0 | 185.10 |
| DUNDEE | 129.2 | 104.90 |
| LUCAS | 173.0 | 61.10 |
| BOIS BLANC | 224.0 | 10.10 |
| BASS ISLANDS | 321.0 | -86.90 |
| G SHALE | 337.5 | -103.4 |
| F SHALE | 347.0 | -112.9 |
| E CARBONATE | 359.0 | -124.9 |
| C SHALE | 403.0 | -168.9 |
| B MARKER | 412.0 | -177.9 |
| B SALT | 424.0 | -189.9 |
| B ANHYDRITE | 480.0 | -245.9 |
| A2 CARBONATE | 481.0 | -246.9 |
| A2 SHALE | 483.0 | -248.9 |
| A1 CARBONATE | 486.0 | -251.9 |
| GUELPH | 517.0 | -282.9 |
| GOAT ISLAND | 585.0 | -350.9 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:LAMBTON TWP:DAWN BLOCK: TRACT: LOT:33 CON:I

WELL NAME:UNION DAWN 248 DAWN 33-I PERMIT NO.:6238 INITIAL CLASS:OTH
OPERATOR :UNION GAS LTD. TARGET SYS:SAL CURRENT STAT.:STOR

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:1.2 KB ELEV:192.6
BOT:563.0 LOG :563.0
ROTRY TOP: DRILLER:562.5
BOT: DEEPEND:
DRLG FLD :WATER PLUGBK :

**DATES**

PERMIT:19830503
START :19830518
COMPTD:19830711
OFFCNF:19840711
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:119.5
SOUTH:
EAST :
WEST :169.7
LAT :42 45 14
LONG :82 13 36

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:GUELPH
PRODUCING INTERVAL :506.6 - 563.0

**SAMPLES**

SAMPLE INTERVAL:27.0 - 562.5 NO. BOTTLES:196
TRAY NUMBERS :7824
MISSNG INTERVAL:

**GENERAL COMMENTS**

GUELPH PINNACLE REEF

GEOLOGY BY:M.G. MCMURRAY

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 510.0 | 513.0 | SHOW | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|
| 25.0 | | 10.0 | FRE | N |
| 190.0 | | 10.0 | SUL | N |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 340 | 71.5 | 27.7 | SHO | | 0 |
| 273 | 60.3 | 163.4 | SHO | | 163.4 |
| 219 | 35.7 | 393.5 | CEM | 280 | 0 |
| 178 | 29.8 | 506.6 | CEM | 225 | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0 | 488.0 | CBND | COMPUTALOG |
| 0 | 394.4 | CBND | COMPUTALOG |
| 505.5 | 562.5 | DENL | COMPUTALOG |
| 0 | 563.0 | GRNL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.2 | 191.40 |
| KETTLE POINT | 25.7 | 166.90 |
| HAMILTON | 78.4 | 114.20 |
| DUNDEE | 159.5 | 33.10 |
| LUCAS | 182.4 | 10.20 |
| BOIS BLANC | 294.5 | -101.9 |
| BASS ISLANDS | 340.6 | -148.0 |
| G SHALE | 373.7 | -181.1 |
| F SHALE | 380.6 | -188.0 |
| E CARBONATE | 407.0 | -214.4 |
| C SHALE | 448.2 | -255.6 |
| B MARKER | 465.1 | -272.5 |
| B ANHYDRITE | 478.4 | -285.8 |
| A2 CARBONATE | 481.3 | -288.7 |
| A2 ANHYDRITE | 501.6 | -309.0 |
| GUELPH | 502.9 | -310.3 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:LAMBTON TWP:DAWN BLOCK: TRACT: LOT:33 CON:III

WELL NAME:UNION DAWN 249 DAWN 33-III PERMIT NO.:6349 INITIAL CLASS:OTH
OPERATOR :UNION GAS LTD. TARGET SYS:SAL CURRENT STAT.:STOR

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:0.0 KB ELEV:192.9
BOT:562.0 LOG :500.7
ROTRY TOP: DRILLER:515.0
BOT: DEEPEND:
DRLG FLD :FRSH WATER PLUGBK :

**DATES**

PERMIT:19830503
START :19830715
COMPTD:19830907
OFFCNF:19840907
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:136.2
SOUTH:
EAST :64.4
WEST :
LAT :42 45 14
LONG :82 13 25

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL :

**SAMPLES**

SAMPLE INTERVAL:24.0 - 562.0 NO. BOTTLES:218
TRAY NUMBERS :8290-91
MISSNG INTERVAL:557.0-558.0

**GENERAL COMMENTS**

GEOLOGY BY:G.M. CARD

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 515.0 | 516.0 | | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 24.0 | | 4.0 | FRE | N | |
| 163.0 | | 45.0 | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 340 | 71.5 | 26.0 | SHO | | |
| 273 | 60.3 | 153.7 | SHO | | 153.7 |
| 219 | 35.7 | 393.8 | CEM | 323. | |
| 178 | 29.8 | 515.2 | CEM | 293. | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0 | 499.7 | CBND | COMPUTALOG |
| 515.0 | 561.8 | DENL | COMPUTALOG |
| 0 | 561.8 | GRNL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.3 | 191.60 |
| KETTLE POINT | 24.4 | 168.50 |
| HAMILTON | 68.0 | 124.90 |
| DUNDEE | 152.8 | 40.10 |
| LUCAS | 183.4 | 9.50 |
| BOIS BLANC | 295.3 | -102.4 |
| BASS ISLANDS | 337.9 | -145.0 |
| G SHALE | 361.2 | -168.3 |
| F SHALE | 383.3 | -190.4 |
| E CARBONATE | 405.1 | -212.2 |
| C SHALE | 452.4 | -259.5 |
| A2 CARBONATE | 486.8 | -293.9 |
| A2 ANHYDRITE | 311.1 | -118.2 |
| GUELPH | 514.0 | -321.1 |
| GOAT ISLAND | 537.5 | -344.6 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:LAMBTON TWP:DAWN BLOCK: TRACT: LOT:33 CON:III

WELL NAME:UNION DAWN 249 DAWN 33-II PERMIT NO.:6239 INITIAL CLASS:OTH
OPERATOR :UNION GAS LTD. TARGET SYS:SAL CURRENT STAT.:STOR

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:0.0 KB ELEV:192.9
BOT:562.0 LOG :500.7
ROTRY TOP: DRILLER:515.0
BOT: DEEPEND:
DRLG FLD :FRSH WATER PLUGBK :

**DATES**

PERMIT:19830503
START :19830715
COMPTD:19830907
OFFCNF:19840907
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:136.2
SOUTH:
EAST :64.4
WEST :
LAT :42 45 14
LONG :82 13 25

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:24.0 - 562.0 NO. BOTTLES:218
TRAY NUMBERS :8290-8291
MISSNG INTERVAL:557.0-558.0

**GENERAL COMMENTS**

GEOLOGY BY:G.M. CARD

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 515.0 | 516.0 | SHOW | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 24.0 | | 4.0 | FRE | N | |
| 163.0 | | 45.0 | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 340 | 71.5 | 26.0 | SHO | | 0 |
| 273 | 60.3 | 153.7 | SHO | | 153.7 |
| 219 | 35.7 | 393.8 | CEM | 323 | 0 |
| 178 | 29.8 | 515.2 | CEM | 293 | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0 | 499.7 | CBND | COMPUTALOG |
| 515.0 | 561.8 | DENL | COMPUTALOG |
| 0 | 561.8 | GRNL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. | NO. BOXES | ANAL |
|---|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.3 | 191.60 |
| KETTLE POINT | 24.4 | 168.50 |
| HAMILTON | 68.0 | 124.90 |
| DUNDEE | 152.8 | 40.10 |
| LUCAS | 183.4 | 9.50 |
| BOIS BLANC | 295.3 | -102.4 |
| BASS ISLANDS | 337.9 | -145.0 |
| G SHALE | 361.2 | -168.3 |
| F SHALE | 383.3 | -190.4 |
| E CARBONATE | 405.1 | -212.2 |
| C SHALE | 452.4 | -259.5 |
| A2 CARBONATE | 486.8 | -293.9 |
| A2 ANHYDRITE | 311.1 | -118.2 |
| GUELPH | 514.0 | -321.1 |
| GOAT ISLAND | 537.5 | -344.6 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:LAMBTON TWP:DAWN BLOCK: TRACT:4 LOT:28 CON:II

WELL NAME:FORBES #20 DAWN 1-28-III PERMIT NO.:5904 INITIAL CLASS:DEV
OPERATOR :FORBES RESOURCES INC. TARGET SYS:SAL CURRENT STAT.:OP-GS

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:0.6 KB ELEV:192.7
BOT:595.8 LOG :592.2
ROTRY TOP: DRILLER:592.5
BOT: DEEPEND:
DRLG FLD :OIL & GAS PLUGBK :

**DATES**

PERMIT:19820615
START :19830207
COMPTD:19830813
OFFCNF:19830913
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:413.0
EAST :
WEST :108.0
LAT :42 43 31
LONG :82 12 47

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:GUELPH
PRODUCING INTERVAL :589.0 - 594.0

**SAMPLES**

SAMPLE INTERVAL:20.0 - 595.0 NO. BOTTLES:191
TRAY NUMBERS :7997
MISSNG INTERVAL:

**GENERAL COMMENTS**

WELL WAS DEEPENED UNDER PERMIT 6345 FROM 592.2 TO 595.8 ON OCTOBER 6-7, 1983 -- DATE OF PERMIT 6345 : 1983/09/14

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 555.0 | 557.0 | 4.2 | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 557.0 | 558.0 | | | N |
| 589.0 | 594.0 | 11.1 | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 25.9 | | 9.0 | FRE | N | |
| 450.0 | 460.0 | 41.0 | BRA | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273 | 47.6 | 20.2 | SHO | | 0.0 |
| 219 | 35.7 | 130.0 | | | 0.0 |
| 178 | 29.8 | 331.9 | CEM | 15 | 0.0 |
| 140 | | 555.0 | CEM | 60 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 396.2 | 590.1 | GRNL | COMPUTALOG |
| 538.9 | 592.2 | DENL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.6 | 192.10 |
| HAMILTON | 56.5 | 136.20 |
| DUNDEE | 127.0 | 65.70 |
| LUCAS | 149.0 | 43.70 |
| AMHERSTBURG | 219.0 | -26.30 |
| BOIS BLANC | 243.3 | -50.60 |
| BASS ISLANDS | 277.0 | -84.30 |
| G SHALE | 321.5 | -128.8 |
| F SHALE | 329.2 | -136.5 |
| E CARBONATE | 362.0 | -169.3 |
| C SHALE | 401.9 | -209.2 |
| B MARKER | 412.6 | -219.9 |
| B SALT | 419.6 | -226.9 |
| A2 CARBONATE | 496.2 | -303.5 |
| A2 SALT | 539.8 | -347.1 |
| A1 CARBONATE | 556.0 | -363.3 |
| GUELPH | 586.7 | -394.0 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:LAMBTON TWP:DAWN BLOCK: TRACT:6 LOT:22 CON:II

WELL NAME:FORBES #21 DAWN 6-22-II PERMIT NO.:6095 INITIAL CLASS:DEV
OPERATOR :FORBES RESOURCES INC. TARGET SYS:SAL CURRENT STAT.:GS-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:0.6 KB ELEV:191.4
BOT:593.1 LOG :593.1
ROTRY TOP: DRILLER:595.9
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830118
START :19830126
COMPTD:19830509
OFFCNF:19830609
WRKOVR:
ABNDND:19830531

**COORDINATES**

NORTH:
SOUTH:180.0
EAST :583.1
WEST :
LAT :42 42 44
LONG :82 13 03

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:20.0 - 595.9 NO. BOTTLES:192
TRAY NUMBERS :7772
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 551.4 | | SHOW | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 36.5 | | | FRE | N | |
| 207.3 | | 36.5 | SUL | N | |
| 518.2 | | 121.9 | SAL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 254 | | 19.2 | SHO | | 19.2 |
| 203.2 | | 176.2 | SHO | | 27.5 |
| 177.8 | | 369.1 | CEM | | 65.5 |
| 127 | | 390.1 | PAC | | 371.9 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0 | 593.1 | GRNL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.6 | 190.80 |
| KETTLE POINT | 19.2 | 172.20 |
| HAMILTON | 105.0 | 86.40 |
| DUNDEE | 158.0 | 33.40 |
| LUCAS | 180.0 | 11.40 |
| AMHERSTBURG | 201.0 | -9.60 |
| BOIS BLANC | 234.0 | -42.60 |
| BASS ISLANDS | 326.0 | -134.6 |
| G SHALE | 356.0 | -164.6 |
| F SHALE | 359.0 | -167.6 |
| E CARBONATE | 362.0 | -170.6 |
| C SHALE | 377.0 | -185.6 |
| B MARKER | 381.0 | -189.6 |
| B ANHYDRITE | 408.0 | -216.6 |
| A2 CARBONATE | 442.0 | -250.6 |
| A2 SALT | 472.0 | -280.6 |
| A1 CARBONATE | 499.9 | -308.5 |
| GUELPH | 545.0 | -353.6 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:LAMBTON TWP:DAWN BLOCK: TRACT:7 LOT:26 CON:III

WELL NAME:FORBES #23 DAWN 7-26-III PERMIT NO.:6306 INITIAL CLASS:DEV
OPERATOR :FORBES RESOURCES INC. TARGET SYS:SAL CURRENT STAT.:OP

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:0.0 KB ELEV:191.5
BOT:601.0 LOG :601.0
ROTRY TOP: DRILLER:601.0
BOT: DEEPEND:
DRLG FLD :GAS-OIL PLUGBK :

**DATES**

PERMIT:19830803
START :19830728
COMPTD:19830823
OFFCNF:19830923
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:150.9
EAST :150.9
WEST :
LAT :42 43 02
LONG :82 12 23

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10³m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:24.0 - 600.0 NO. BOTTLES:200
TRAY NUMBERS :8175
MISSNG INTERVAL:

**GENERAL COMMENTS**

GEOLOGY BY:G.M. CARD

**INITIAL GAS RECORD**

| PRODN TOP | INTRVL BOT | FLOW (10³m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 588.0 | 590.0 | | | N |

**INITIAL OIL RECORD**

| PRODN TOP | INTRVL BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 590.0 | 592.0 | | | N |

**INITIAL WATER RECORD**

| PRODN TOP | INTRVL BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 141.0 | 144.0 | 56.0 | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 273 | | 23.4 | SHO | | 0.0 |
| 219 | | 133.9 | SHO | | 0.0 |
| 178 | | 332.0 | CEM | 20 | 240.0 |
| 114 | | 601.0 | CEM | 330 | 0.0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 373.0 | 600.0 | GRNL | COMPUTALOG |
| 537.5 | 600.0 | DENL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.4 | 190.10 |
| KETTLE POINT | 24.0 | 167.50 |
| HAMILTON | 63.0 | 128.50 |
| DUNDEE | 138.0 | 53.50 |
| LUCAS | 172.0 | 19.50 |
| AMHERSTBURG | 223.0 | -31.50 |
| BOIS BLANC | 243.0 | -51.50 |
| BASS ISLANDS | 285.0 | -93.50 |
| G SHALE | 326.0 | -134.5 |
| F SHALE | 335.0 | -143.5 |
| C SHALE | 396.0 | -204.5 |
| B MARKER | 424.0 | -232.5 |
| B SALT | 433.0 | -241.5 |
| A2 CARBONATE | 493.0 | -301.5 |
| A2 SHALE | 541.0 | -349.5 |
| A1 CARBONATE | 551.0 | -359.5 |
| A1 ANHYDRITE | 585.0 | -393.5 |
| GUELPH | 587.0 | -395.5 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:LAMBTON TWP:DAWN BLOCK: TRACT:7 LOT:33 CON:IV

WELL NAME:PD & A 1 LAMBTON DAWN 7-33-IV PERMIT NO.:6289 INITIAL CLASS:NPW
OPERATOR :PATTERSON DRILLING AND ASSOCIATES TARGET SYS:SIL CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:1.2 KB ELEV:197.2
BOT:650.0 LOG :649.5
ROTRY TOP: DRILLER:650.0
BOT: DEEPEND:
DRLG FLD :DRY PLUGBK :

**DATES**

PERMIT:19830706
START :19830712
COMPTD:19830818
OFFCNF:19840818
WRKOVR:
ABNDND:19830822

**COORDINATES**

NORTH:
SOUTH:150.9
EAST :167.6
WEST :
LAT :42 45 23
LONG :82 11 18

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:18.5 - 650.0 NO. BOTTLES:199
TRAY NUMBERS :8089
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|
| 156.0 | | 60.0 | SUL | N |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273 | 60.3 | 19.0 | SHO | | 19.0 |
| 219 | 35.7 | 123.0 | SHO | | 123.0 |
| 178 | 29.8 | 350.0 | CEM | 20 | 276.5 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0.0 | 649.5 | GRNL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.2 | 196.00 |
| KETTLE POINT | 19.0 | 178.20 |
| MARCELLUS | 46.6 | 150.60 |
| DUNDEE | 119.2 | 78.00 |
| LUCAS | 181.0 | 16.20 |
| BOIS BLANC | 240.0 | -42.80 |
| BASS ISLANDS | 288.0 | -90.80 |
| G SHALE | 331.6 | -134.4 |
| F SHALE | 338.5 | -141.3 |
| E CARBONATE | 371.0 | -173.8 |
| C SHALE | 408.0 | -210.8 |
| B MARKER | 427.0 | -229.8 |
| B SALT | 433.0 | -235.8 |
| A2 CARBONATE | 508.0 | -310.8 |
| A2 SALT | 553.0 | -355.8 |
| A2 ANHYDRITE | 569.5 | -372.3 |
| A1 CARBONATE | 574.5 | -377.3 |
| A1 ANHYDRITE | 607.8 | -410.6 |
| GUELPH | 714.0 | -516.8 |
| GOAT ISLAND | 619.0 | -421.8 |
| GASPORT | 629.0 | -431.8 |
| ROCHESTER | 645.3 | -448.1 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:LAMBTON TWP:DAWN BLOCK: TRACT:8 LOT:26 CON:III

WELL NAME:FORBES #22 DAWN 8-26-III PERMIT NO.:6130 INITIAL CLASS:DEV
OPERATOR :FORBES RESOURCES INC. TARGET SYS:SAL CURRENT STAT.:OP

**DRILLING**

CONTRACTOR:
RIG TYPE :CABLE DEPTHS.....
CABLE TOP:1.2 KB ELEV:193.0
BOT:599.6 LOG :599.6
ROTRY TOP: DRILLER:599.0
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830316
START :19830316
COMPTD:19830412
OFFCNF:19830512
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:169.0
SOUTH:
EAST :60.9
WEST :
LAT :42 42 54
LONG :82 12 27

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:25.0 - 599.0 NO. BOTTLES:203
TRAY NUMBERS :7764
MISSNG INTERVAL:

**GENERAL COMMENTS**

1. TAS TYPE HCL ACID 2. D EQUIVALENT 398.0

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN TOP | INTRVL BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 587.0 | 589.0 | | | N |

**INITIAL OIL RECORD**

| PRODN TOP | INTRVL BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 564.0 | 565.0 | | | N |
| 587.0 | 593.0 | 3.8 | | N |

**INITIAL WATER RECORD**

| PRODN TOP | INTRVL BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|
| 174.0 | 177.0 | 76.0 | SUL | N |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) (m) |
|---|---|---|---|---|
| 273.0 | | 26.6 | SHO | |
| 219.0 | | 139.0 | SHO | |
| 178.0 | | 337.0 | CEM | 20 |
| 114.0 | | 599.0 | CEM | |
| 51 | | 595.0 | HAN | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 496.5 | 599.6 | GRNL | COMPUTALOG |
| 599.2 | 599.6 | DENL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.2 | 191.80 |
| KETTLE POINT | 27.0 | 166.00 |
| HAMILTON | 65.0 | 128.00 |
| DUNDEE | 135.0 | 58.00 |
| LUCAS | 167.0 | 26.00 |
| AMHERSTBURG | 227.0 | -34.00 |
| BOIS BLANC | 257.0 | -64.00 |
| BASS ISLANDS | 281.5 | -88.50 |
| G SHALE | 328.0 | -135.0 |
| F SHALE | 333.0 | -140.0 |
| E CARBONATE | 362.0 | -169.0 |
| C SHALE | 404.0 | -211.0 |
| B SALT | 428.0 | -235.0 |
| A2 CARBONATE | 492.0 | -299.0 |
| A2 SALT | 536.2 | -343.2 |
| A2 ANHYDRITE | 550.2 | -357.2 |
| A1 CARBONATE | 551.3 | -358.3 |
| A1 ANHYDRITE | 584.6 | -391.6 |
| GUELPH | 587.3 | -394.3 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:LAMBTON TWP:ENNISKILLEN BLOCK: TRACT:1 LOT:7 CON:XII

WELL NAME:CARTIER #2 ENNISKILLEN 1-7-XII PERMIT NO.:6049 INITIAL CLASS:DEV
OPERATOR :CARTIER RESOURCES INC. TARGET SYS:DEV CURRENT STAT.:OP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:204.3
BOT: LOG :146.0
ROTRY TOP:0.3 DRILLER:146.3
BOT:146.3 DEEPEND:
DRLG FLD :WATER PLUGBK :

**DATES**

PERMIT:19821103
START :19821220
COMPTD:19830104
OFFCNF:19830204
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:106.7
EAST :
WEST :61.0
LAT :42 54 23
LONG :82 11 02

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | DEPTH TOP | DEPTH ELEV |
|---|---|---|
| DRIFT | 0.3 | 204.00 |
| HAMILTON | 32.2 | 172.10 |
| DUNDEE | 106.1 | 98.20 |
| COLUMBUS | 134.6 | 69.70 |

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:34.0 - 146.3 NO. BOTTLES:38
TRAY NUMBERS :1924
MISSNG INTERVAL:

**DST RECORDS**

| DST INTERVAL TOP | DST INTERVAL BOT | FORMATION |
|---|---|---|

**GENERAL COMMENTS**

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | PRODN INTRVL BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | PRODN INTRVL BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 140.2 | | SHOW | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | PRODN INTRVL BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 145.7 | 146.3 | | BRA | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 178 | 29.8 | 35.1 | CEM | 10 | 0 |
| 114 | 16.4 | 122.5 | CEM | 10 | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0 | 143.9 | GRNL | COMPUTALOG |
| 122.2 | 145.7 | DENL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

COUNTY:LAMBTON TWP:ENNISKILLEN BLOCK: TRACT:1 LOT:9 CON:XIII

WELL NAME:STEVENSON ENNISKILLEN 1-1-9-XIII PERMIT NO.:6079 INITIAL CLASS:DEV
OPERATOR :CHARLES G. STEVENSON DRILLING LTD. TARGET SYS:DEV CURRENT STAT.:OS-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :CABLE DEPTHS.....
CABLE TOP: KB ELEV:203.8
BOT: LOG :
ROTRY TOP: DRILLER:153.0
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19821210
START :19830107
COMPTD:19830125
OFFCNF:19830225
WRKOVR:
ABNDND:19830811

**COORDINATES**

NORTH:
SOUTH:88.0
EAST :
WEST :69.0
LAT :42 55 06
LONG :82 10 07

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.3 | 203.50 |
| DUNDEE | 115.0 | 88.80 |
| LUCAS | 150.3 | 53.50 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:40.0 - 152.7 NO. BOTTLES:49
TRAY NUMBERS :1927
MISSNG INTERVAL:131.4-132.6 , 147.5-148.4

**GENERAL COMMENTS**

1. NO LOGS 2. RIG TYPE COMBINATION ROTARY/CABLE

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 137.0 | 138.6 | | | N |
| 150.8 | 153.0 | | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 131.0 | 132.5 | | SUL | N | |
| 137.0 | 138.6 | | | N | |
| 150.8 | 153.0 | | | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 178 | 52.1 | 42.6 | CEM | 10 | 0.0 |
| 114 | 18.7 | 125.5 | SHO | | 125.5 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

COUNTY:LAMBTON TWP:ENNISKILLEN BLOCK: TRACT:2 LOT:13 CON:XIII

WELL NAME:CONS/DOW 33580 ENNISKILLEN 2-13-XIII PERMIT NO.:6064 INITIAL CLASS:NFW
OPERATOR :CONSUMERS GAS TARGET SYS:SAL CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:1.2 KB ELEV:205.5
BOT:708.0 LOG :709.0
ROTRY TOP: DRILLER:708.0
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19821126
START :19821224
COMPTD:19830129
OFFCNF:19840129
WRKOVR:
ABNDND:19830201

**COORDINATES**

NORTH:
SOUTH:149.0
EAST :152.6
WEST :
LAT :42 55 02
LONG :82 08 37

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:26.0 - 708.0 NO. BOTTLES:232
TRAY NUMBERS :7701-7702
MISSNG INTERVAL:

**GENERAL COMMENTS**

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 156.0 | 169.0 | TRACE | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 134.0 | | 60.0 | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273 | 60.0 | 27.7 | SHO | | 27.7 |
| 219 | 36.0 | 118.3 | SHO | | 118.3 |
| 178 | 30.0 | 367.9 | CEM | 25 | 227.9 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 1.0 | 710.0 | SNP | SCHLUMBERGER |
| 1.0 | 710.0 | GRL | SCHLUMBERGER |
| 1.0 | 710.0 | DENL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.2 | 204.30 |
| KETTLE POINT | 26.8 | 178.70 |
| HAMILTON | 30.0 | 175.50 |
| DUNDEE | 115.3 | 90.20 |
| LUCAS | 141.8 | 63.70 |
| AMHERSTBURG | 232.6 | -27.10 |
| BOIS BLANC | 255.0 | -49.50 |
| BASS ISLANDS | 287.4 | -81.90 |
| G SHALE | 344.8 | -139.3 |
| F SHALE | 351.4 | -145.9 |
| E CARBONATE | 439.8 | -234.3 |
| D SALT | 461.4 | -255.9 |
| C SHALE | 471.4 | -265.9 |
| B MARKER | 493.7 | -288.2 |
| B SALT | 501.0 | -295.5 |
| A2 CARBONATE | 582.3 | -376.8 |
| A2 SALT | 625.6 | -420.1 |
| A2 ANHYDRITE | 652.8 | -447.3 |
| A1 CARBONATE | 654.2 | -448.7 |
| A1 ANHYDRITE | 691.8 | -486.3 |
| GUELPH | 696.0 | -490.5 |
| ERAMOSA | 702.0 | -496.5 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:LAMBTON TWP:ENNISKILLEN BLOCK: TRACT:2-4 LOT:17 CON:X

WELL NAME:JACQUES #14 ENNISKILLEN 2-4-17-X PERMIT NO.:6090 INITIAL CLASS:DEV
OPERATOR :LAMBTON AREA INDUSTRIES LTD. TARGET SYS:DEV CURRENT STAT.:OP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:203.9
BOT: LOG :
ROTRY TOP:0.3 DRILLER:141.7
BOT:141.7 DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830105
START :19830204
COMPTD:19830224
OFFCNF:19830324
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:442.0
EAST :
WEST :237.7
LAT :42 52 37
LONG :82 06 44

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:LUCAS
PRODUCING INTERVAL :135.0 - 140.0

**SAMPLES**

SAMPLE INTERVAL:27.0 - 143.3 NO. BOTTLES:38
TRAY NUMBERS :1953
MISSNG INTERVAL:

**GENERAL COMMENTS**

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 130.0 | 140.0 | SHOW | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 140 | 20.8 | 116.0 | HAN | | 0 |
| 178.0 | 25.3 | 30.0 | CEM | 7 | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.3 | 203.60 |
| DUNDEE | 100.0 | 103.90 |
| LUCAS | 125.0 | 78.90 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:LAMBTON TWP:ENNISKILLEN BLOCK: TRACT:2-8 LOT:17 CON:X

WELL NAME:JACQUES # 11 ENNISKILLEN 2-8-17-X PERMIT NO.:6083 INITIAL CLASS:DEV
OPERATOR :LAMBTON AREA INDUSTRIES LTD. TARGET SYS: CURRENT STAT.:OP

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:0.3 KB ELEV:203.1
BOT:143.8 LOG :
ROTRY TOP: DRILLER:143.8
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830105
START :19830516
COMPTD:19830608
OFFCNF:19830708
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:1092.1
EAST :
WEST :211.2
LAT :42 52 16
LONG :82 06 43

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:20.0 - 143.3 NO. BOTTLES:37
TRAY NUMBERS :1931
MISSNG INTERVAL:54.0-67.0 , BAGS EMPTY

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 178 | | 22.0 | SHO | | |
| 140 | | 106.0 | CEM | 7 | |
| 38 | | 140.0 | | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.3 | 202.80 |
| DUNDEE | 106.0 | 97.10 |
| LUCAS | 125.0 | 78.10 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:LAMBTON TWP:ENNISKILLEN BLOCK: TRACT:2-8 LOT:9 CON:XIV

WELL NAME:ATKINSON 4 ENNISKILLEN 2-8-9-XIV PERMIT NO.:6093 INITIAL CLASS:OTH
OPERATOR :ATKINSON, STANLEY J. TARGET SYS:DEV CURRENT STAT.:DISP

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:0.3 KB ELEV:208 4
BOT:198.0 LOG :
ROTRY TOP: DRILLER:198.0
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830112
START :19830112
COMPTD:19830704
OFFCNF:19840704
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:346.0
EAST :
WEST :203.9
LAT :42 55 20
LONG :82 10 14

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | DEPTH TOP | DEPTH ELEV |
|---|---|---|
| DRIFT | 0.3 | 208.10 |
| DUNDEE | 122.0 | 86.40 |
| LUCAS | 143.0 | 85.40 |

**DST RECORDS**

DST INTERVAL
TOP BOT FORMATION

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:24.0 - 195.1 NO. BOTTLES:48
TRAY NUMBERS :1958
MISSNG INTERVAL:27.0-49.0 , 176.0-180.0

**GENERAL COMMENTS**

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|
| 150.8 | | SHOW | | N |
| 163.9 | | | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 125.5 | | 55.0 | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 203.2 | | 54.0 | OTH | | |
| 177.8 | | 156.0 | CEM | 21 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

COUNTY:LAMBTON TWP:ENNISKILLEN BLOCK: TRACT:3 LOT:12 CON:XII

WELL NAME:B.C.R. #1 ENNISKILLEN 3-12-XII PERMIT NO.:6275 INITIAL CLASS:OTH
OPERATOR :BEAR CREEK RESOURCES LTD. TARGET SYS:DEV CURRENT STAT.:DISP

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:158.5 KB ELEV:203.6
BOT:243.8 LOG :240.0
ROTRY TOP:0.0 DRILLER:243.8
BOT:158.5 DEEPEND:
DRLG FLD :FORM WATER PLUGBK :

**DATES**

PERMIT:19830623
START :19830622
COMPTD:19830802
OFFCNF:19840802
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:381.4
EAST :88.8
WEST :
LAT :42 54 12
LONG :82 09 09

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:LUCAS
PRODUCING INTERVAL :156.0 - 240.0

**SAMPLES**

SAMPLE INTERVAL:28.0 - 243.5 NO. BOTTLES:76
TRAY NUMBERS :1838
MISSNG INTERVAL:

**GENERAL COMMENTS**

SPUDDED WITH ROTARY AND COMPLETED WITH CABLE

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|
| 140.2 | 146.3 | SHOW | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 156.0 | | 50.0 | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 273 | 48.7 | 36.6 | SHO | | 0 |
| 178 | 29.8 | 156.1 | CEM | 100 | 0 |
| 114 | 14.1 | 161.3 | PAC | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0 | 238.0 | GRL | COMPUTALOG |
| 155.0 | 240.0 | DENL | COMPUTALOG |
| 3.0 | 139.9 | TMPL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | NO. ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| HAMILTON | 27.0 | 176.60 |
| DUNDEE | 101.6 | 102.00 |
| LUCAS | 142.4 | 61.20 |
| AMHERSTBURG | 200.8 | 2.80 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:LAMBTON TWP:ENNISKILLEN BLOCK: TRACT:3 LOT:29 CON:VIII

WELL NAME:DOW ENNISKILLEN 3-29-VIII PERMIT NO.:6377 INITIAL CLASS:NPW
OPERATOR :DOW CHEMICAL CANADA INC. TARGET SYS:SAL CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:1.4 KB ELEV:209.5
BOT:639.5 LOG :637.7
ROTRY TOP: DRILLER:639.5
BOT: DEEPEND:
DRLG FLD :FORM.WATER PLUGBK :

**DATES**

PERMIT:19831115
START :19831024
COMPTD:19831122
OFFCNF:19841122
WRKOVR:
ABNDND:19831129

**COORDINATES**

NORTH:
SOUTH:365.8
EAST :152.4
WEST :
LAT :42 51 05
LONG :82 01 17

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:16.0 - 639.5 NO. BOTTLES:208
TRAY NUMBERS :2495
MISSNG INTERVAL:

**GENERAL COMMENTS**

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 148.0 | | TRACE | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 18.0 | | | FRE | | |
| 150.0 | | 75.0 | SUL | | |
| 634.0 | | 584.0 | SAL | | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273 | 60.2 | 18.5 | SHO | | 18.5 |
| 219 | 35.7 | 115.4 | SHO | | 115.4 |
| 178 | 34.7 | 350.0 | CEM | 35 | 219.0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0.0 | 635.5 | GRNL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.4 | 208.10 |
| KETTLE POINT | 17.5 | 192.00 |
| HAMILTON | 34.7 | 174.80 |
| DUNDEE | 113.5 | 96.00 |
| LUCAS | 138.0 | 71.50 |
| AMHERSTBURG | 216.7 | -7.20 |
| BOIS BLANC | 237.3 | -27.80 |
| BASS ISLANDS | 286.5 | -77.00 |
| G SHALE | 330.2 | -120.7 |
| F SHALE | 349.2 | -139.7 |
| E CARBONATE | 364.0 | -154.5 |
| D SALT | 405.0 | -195.5 |
| C SHALE | 413.8 | -204.3 |
| B MARKER | 434.8 | -225.3 |
| B SALT | 442.0 | -232.5 |
| A2 CARBONATE | 522.5 | -313.0 |
| A2 SHALE | 564.0 | -354.5 |
| A2 ANHYDRITE | 581.5 | -372.0 |
| A1 CARBONATE | 584.0 | -374.5 |
| A1 ANHYDRITE | 619.2 | -409.7 |
| GUELPH | 624.8 | -415.3 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:LAMBTON TWP:ENNISKILLEN BLOCK: TRACT:3-4 LOT:17 CON:X

WELL NAME:JACQUES #25 ENNISKILLEN 3-4-17-X
OPERATOR :LAMBTON AREA INDUSTRIES LTD.
PERMIT NO.:6080 INITIAL CLASS:DEV
TARGET SYS:DEV CURRENT STAT.:OP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:203.9
BOT:141.7 LOG :
ROTRY TOP:0.3 DRILLER:141.7
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19821217
START :19830104
COMPTD:19830510
OFFCNF:19830604
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:489.7
SOUTH:
EAST :
WEST :135.2
LAT :42 52 37
LONG :82 06 39

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | DEPTH TOP | DEPTH ELEV |
|---|---|---|
| DRIFT | 0.3 | 203.60 |

**DST RECORDS**

DST INTERVAL
TOP BOT FORMATION

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:

PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:30.0 - 141.7 NO. BOTTLES:29
TRAY NUMBERS :1978
MISSNG INTERVAL:85.0-88.0 , 106.0-110.0 , 122.0-140.0

**GENERAL COMMENTS**

SPUDDED WITH ROTARY & COMPLETED WITH CABLE

GEOLOGY BY:DABRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | PRODN INTRVL BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | PRODN INTRVL BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 137.2 | 141.7 | | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | PRODN INTRVL BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 25.9 | | 9.1 | FRE | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 140 | 34.2 | 104.0 | CEM | 7 | |
| 178 | 52.1 | 30.0 | CEM | | |
| 61 | | 139.0 | HAN | | |

**LOGGING RECORD**

LOGGED..... LOG
TOP BOT TYPE LOGGING COMPANY

**CORING RECORD**

CORED..... CORE CORE NO.
TOP BOT COND LCTN NO. BOXES ANAL

COUNTY:LAMBTON TWP:ENNISKILLEN BLOCK: TRACT:3-5 LOT:28 CON:IX

WELL NAME:IMP 60 ENNISKILLEN 3-5-28-IX PERMIT NO.:6405 INITIAL CLASS:DPT
OPERATOR :R.G. BRYANT ENERGY ASS. INC. TARGET SYS:DEV CURRENT STAT.:OS

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:0.0 KB ELEV:207.5
BOT:139.6 LOG :139.6
ROTRY TOP: DRILLER:139.9
BOT: DEEPEND:
DRLG FLD :OIL PLUGBK :

**DATES**

PERMIT:19831124
START :19831126
COMPTD:19831209
OFFCNF:19841209
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:501.5
SOUTH:
EAST :
WEST :250.4
LAT :42 51 35
LONG :82 01 48

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:123.7 - 139.9 NO. BOTTLES:12
TRAY NUMBERS :1580
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 16.5 | | 6.0 | FRE | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 219 | 41.7 | 18.6 | SHO | | |
| 178 | 35.7 | 35.4 | SHO | | |
| 140 | 20.8 | 115.2 | CEM | 15 | |
| 73 | 9.7 | 125.3 | PAC | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0.0 | 137.2 | GRNL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| KETTLE POINT | 18.3 | 189.20 |
| HAMILTON | 28.7 | 178.80 |
| DUNDEE | 107.5 | 100.00 |
| LUCAS | 131.7 | 75.80 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:LAMBTON TWP:ENNISKILLEN BLOCK: TRACT:4 LOT:17 CON:X

WELL NAME:JACQUES #4 ENNISKILLEN 4-4-17-X PERMIT NO.:6089 INITIAL CLASS:DEV
OPERATOR :LAMBTON AREA INDUSTRIES LTD. TARGET SYS:DEV CURRENT STAT.:OP

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:0.3 KB ELEV:203.2
BOT:171.7 LOG :
ROTRY TOP: DRILLER:141.7
BOT: DEEPEND:
DRLG FLD :7 PLUGBK :

**DATES**

PERMIT:19830105
START :19830307
COMPTD:19830421
OFFCNF:19830521
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:606.6
EAST :
WEST :90.8
LAT :42 52 32
LONG :82 06 37

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.3 | 202.90 |
| HAMILTON | 19.2 | 184.00 |
| DUNDEE | 97.0 | 106.20 |
| LUCAS | 127.0 | 76.20 |

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:9.1 - 143.3 NO. BOTTLES:54
TRAY NUMBERS :1940
MISSNG INTERVAL:

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

**GENERAL COMMENTS**

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 178.0 | 52.1 | 26.0 | SHO | | |
| 140.0 | 34.2 | 104.0 | CEM | | |
| 61.0 | | 139.0 | HAN | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

COUNTY:LAMBTON TWP:EUPHEMIA BLOCK: TRACT:1 LOT:30 CON:VIII

WELL NAME:STRATHBURN EUPHEMIA 1-1-30-VIII PERMIT NO.:6371 INITIAL CLASS:OTH
OPERATOR :STRATHBURN PETROLEUMS LTD. TARGET SYS:DEV CURRENT STAT.:STRAT-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:207.0
BOT: LOG :153.3
ROTRY TOP:1.1 DRILLER:153.3
BOT:153.3 DEEPEND:
DRLG FLD :FORM.WATER PLUGBK :

**DATES**

PERMIT:19831025
START :19831013
COMPTD:19831015
OFFCNF:19841015
WRKOVR:
ABNDND:19831015

**COORDINATES**

NORTH:76.2
SOUTH:
EAST :
WEST :109.7
LAT :42 43 42
LONG :81 52 53

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.1 | 205.90 |
| HAMILTON | 20.2 | 186.80 |
| DUNDEE | 89.7 | 117.30 |
| LUCAS | 110.4 | 96.60 |

**DST RECORDS**

DST INTERVAL
TOP BOT FORMATION

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:19.8 - 153.3 NO. BOTTLES:42
TRAY NUMBERS :1961
MISSNG INTERVAL:

**GENERAL COMMENTS**

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|
| 122.8 | | SHOW | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 148.0 | | | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 139.7 | 20.8 | 30.5 | CEM | 15 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0.0 | 151.0 | GRNL | COMPUTALOG |
| 84.0 | 152.5 | DENL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

COUNTY:LAMBTON TWP:EUPHEMIA BLOCK: TRACT:1 LOT:30 CON:X

WELL NAME:STRATHBURN EUPHEMIA 1-1-30-X PERMIT NO.:6398 INITIAL CLASS:OTH
OPERATOR :STRATHBURN PETROLEUM LTD. TARGET SYS:DEV CURRENT STAT.:STRAT-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:0.3 KB ELEV:209.6
BOT:139.0 LOG :138.7
ROTRY TOP: DRILLER:139.0
BOT: DEEPEND:
DRLG FLD :FORM.WATER PLUGBK :

**DATES**

PERMIT:19831220
START :19831203
COMPTD:19831211
OFFCNF:19841211
WRKOVR:
ABNDND:19831213

**COORDINATES**

NORTH:76.2
SOUTH:
EAST :
WEST :83.8
LAT :42 43 41
LONG :81 50 53

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.3 | 209.30 |
| KETTLE POINT | 22.5 | 187.10 |
| HAMILTON | 28.3 | 181.30 |
| DUNDEE | 102.8 | 106.80 |
| LUCAS | 127.0 | 82.60 |

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:22.0 - 139.0 NO. BOTTLES:47
TRAY NUMBERS :2443
MISSNG INTERVAL:

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

**GENERAL COMMENTS**

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 21.0 | | | FRE | N | |
| 130.0 | | 40.0 | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 219 | 35.7 | 23.3 | SHO | | 23.3 |
| 178 | 29.8 | 105.0 | SHO | | 105.0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 1.0 | 135.0 | GRNL | COMPUTALOG |
| 104.5 | 138.0 | DENL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

COUNTY:LAMBTON TWP:EUPHEMIA BLOCK: TRACT:1-2 LOT:28 CON:X

WELL NAME:STRATHBURN EUPHEMIA 2-1-28-X PERMIT NO.:6372 INITIAL CLASS:OTH
OPERATOR :STRATHBURN PETROLEUM LTD. TARGET SYS:DEV CURRENT STAT.:STRAT-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:210.1
BOT: LOG :152.8
ROTRY TOP:1.0 DRILLER:153.3
BOT:153.3 DEEPEND:
DRLG FLD :FORM.WATER PLUGBK :

**DATES**

PERMIT:19831025
START :19831015
COMPTD:19831016
OFFCNF:19841016
WRKOVR:
ABNDND:19831018

**COORDINATES**

NORTH:228.6
SOUTH:
EAST :
WEST :63.8
LAT :42 43 07
LONG :81 50 53

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.0 | 209.10 |
| KETTLE POINT | 22.5 | 187.60 |
| HAMILTON | 31.4 | 178.70 |
| DUNDEE | 111.7 | 98.40 |
| LUCAS | 136.7 | 73.40 |

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:25.0 - 153.5 NO. BOTTLES:40
TRAY NUMBERS :1962
MISSNG INTERVAL:

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

**GENERAL COMMENTS**

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 138.0 | | 32.5 | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 139.7 | 20.8 | 38.8 | CEM | 19 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 104.5 | 152.5 | DENL | COMPUTALOG |
| 0.0 | 150.5 | GRNL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

COUNTY:LAMBTON TWP:EUPHEMIA BLOCK: TRACT:2-1 LOT:26 CON:VIII

WELL NAME:STRATHBURN EUPHEMIA 2-1-26-VIII PERMIT NO.:6368 INITIAL CLASS:OTH
OPERATOR :STRATHBURN PETROLEUM LTD. TARGET SYS:DEV CURRENT STAT.:STRAT-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:207.7
BOT: LOG :145.0
ROTRY TOP:1.1 DRILLER:145.0
BOT:145.0 DEEPEND:
DRLG FLD :FORM.WATER PLUGBK :

**DATES**

PERMIT:19831025
START :19831011
COMPTD:19831012
OFFCNF:19841012
WRKOVR:
ABNDND:19831014

**COORDINATES**

NORTH:228.6
SOUTH:
EAST :
WEST :83.8
LAT :41 42 30
LONG :81 52 51

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.1 | 206.60 |
| HAMILTON | 21.8 | 185.90 |
| DUNDEE | 90.6 | 117.10 |
| LUCAS | 115.0 | 92.70 |

**DST RECORDS**

DST INTERVAL
TOP BOT FORMATION

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:

PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:25.4 - 135.0 NO. BOTTLES:32
TRAY NUMBERS :2057
MISSNG INTERVAL:58.8-61.8 , 122.8-128.9 (BAG MARKED NO RETURN)

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 125.0 | | 67.0 | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 139.7 | 20.8 | 37.4 | CEM | 20 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0.0 | 143.0 | GRNL | COMPUTALOG |
| 87.0 | 145.0 | DENL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

COUNTY:LAMBTON TWP:EUPHEMIA BLOCK: TRACT:2-6 LOT:25 CON:XI

WELL NAME:STRATHBURN EUPHEMIA 2-6-25-XI PERMIT NO.:6373 INITIAL CLASS:OTH
OPERATOR :STRATHBURN PETROLEUM LTD. TARGET SYS:DEV CURRENT STAT.:STRAT-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:211.6
BOT: LOG :152.5
ROTRY TOP:1.0 DRILLER:153.3
BOT:153.3 DEEPEND:
DRLG FLD :FORM.WATER PLUGBK :

**DATES**

PERMIT:19831025
START :19831017
COMPTD:19831019
OFFCNF:19841019
WRKOVR:
ABNDND:19831020

**COORDINATES**

NORTH:
SOUTH:76.2
EAST :586.7
WEST :
LAT :42 42 19
LONG :81 50 21

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.0 | 210.60 |
| HAMILTON | 25.9 | 185.70 |
| DUNDEE | 90.5 | 121.10 |
| LUCAS | 118.8 | 92.80 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:

PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:34.0 - 147.2 NO. BOTTLES:36
TRAY NUMBERS :2068
MISSNG INTERVAL:49.6-52.6 , 147.2-153.3 (NO SAMPLE BAG MARKED)

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|
| 116.7 | 120.0 | SHOW | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 83.5 | | 23.2 | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 139.7 | 20.8 | 45.7 | CEM | 20 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0.0 | 150.2 | GRNL | COMPUTALOG |
| 83.0 | 152.5 | DENL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

COUNTY:LAMBTON TWP:EUPHEMIA BLOCK: TRACT:2-7 LOT:33 CON:VII

WELL NAME:STRATHBURN EUPHEMIA 2-7-33-VII PERMIT NO.:6382 INITIAL CLASS:OTH
OPERATOR :STRATHBURN PETROLEUM LTD. TARGET SYS:DEV CURRENT STAT.:STRAT-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:207.8
BOT: LOG :144.7
ROTRY TOP:1.2 DRILLER:145.0
BOT:145.0 DEEPEND:
DRLG FLD :FORM.WATER PLUGBK :

**DATES**

PERMIT:19831025
START :19831007
COMPTD:19831008
OFFCNF:19841008
WRKOVR:
ABNDND:19831010

**COORDINATES**

NORTH:
SOUTH:76.2
EAST :251.5
WEST :
LAT :42 44 51
LONG :81 54 36

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:0.0 - 128.9 NO. BOTTLES:36
TRAY NUMBERS :2076
MISSNG INTERVAL:104.0-119.0

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 18.0 | | | FRE | N | |
| 135.0 | | | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 139.7 | 20.8 | 25.2 | CEM | 20 | 9.5 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0.0 | 142.5 | GRNL | COMPUTALOG |
| 107.2 | 144.0 | DENL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.2 | 206.60 |
| KETTLE POINT | 20.2 | 187.60 |
| HAMILTON | 27.0 | 180.80 |
| DUNDEE | 101.9 | 105.90 |
| LUCAS | 121.2 | 86.60 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:LAMBTON TWP:EUPHEMIA BLOCK: TRACT:3-6 LOT:25 CON:IX

WELL NAME:STRATHBURN EUPHEMIA 3-6-25-IX PERMIT NO.:6367 INITIAL CLASS:OTH
OPERATOR :STRATHBURN PETROLEUM LTD. TARGET SYS:DEV CURRENT STAT.:STRAT-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:205.6
BOT: LOG :145.1
ROTRY TOP:1.0 DRILLER:145.1
BOT:145.1 DEEPEND:
DRLG FLD :FORM.WATER PLUGBK :

**DATES**

PERMIT:19831025
START :19831009
COMPTD:19831010
OFFCNF:19841010
WRKOVR:
ABNDND:19831012

**COORDINATES**

NORTH:
SOUTH:76.2
EAST :419.1
WEST :
LAT :42 42 19
LONG :81 52 27

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.0 | 204.60 |
| HAMILTON | 20.4 | 185.20 |
| DUNDEE | 89.4 | 116.20 |
| LUCAS | 115.3 | 90.30 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:19.1 - 145.0 NO. BOTTLES:39
TRAY NUMBERS :1985
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 128.9 | | 44.0 | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 139.7 | 20.8 | 37.4 | CEM | 20 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0.0 | 143.0 | GRNL | COMPUTALOG |
| 87.0 | 145.0 | DENL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

COUNTY:LAMBTON TWP:MOORE BLOCK: TRACT: LOT:20 CON:X

WELL NAME:TEC CORUNNA #5 MOORE 20-X PERMIT NO.:6117 INITIAL CLASS:OTH
OPERATOR :TECUMSEH GAS STORAGE LTD. TARGET SYS:SAL CURRENT STAT.:GS

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:1.3 KB ELEV:197.9
BOT:715.6 LOG :715.6
ROTRY TOP: DRILLER:716.0
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830215
START :19830503
COMPTD:19830616
OFFCNF:19840616
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:232.3
EAST :
WEST :100.9
LAT :42 53 03
LONG :82 22 44

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE:2620 kPa
OIL: m3/d
PRODUCING FORMATION:GUELPH
PRODUCING INTERVAL :656.0 - 715.6

**SAMPLES**

SAMPLE INTERVAL:42.0 - 716.0 NO. BOTTLES:255
TRAY NUMBERS :7843-7844
MISSNG INTERVAL:484.0-488.0 , 697.0-700.0

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.3 | 196.60 |
| KETTLE POINT | 42.0 | 155.90 |
| HAMILTON | 73.0 | 124.90 |
| DUNDEE | 156.4 | 41.50 |
| LUCAS | 190.3 | 7.60 |
| AMHERSTBURG | 277.6 | -79.70 |
| BOIS BLANC | 301.0 | -103.1 |
| BASS ISLANDS | 329.6 | -131.7 |
| G SHALE | 376.7 | -178.8 |
| F SHALE | 399.0 | -201.1 |
| E CARBONATE | 443.0 | -245.1 |
| D SALT | 523.0 | -325.1 |
| C SHALE | 534.4 | -336.5 |
| B MARKER | 545.0 | -347.1 |
| B SALT | 551.8 | -353.9 |
| A2 CARBONATE | 614.0 | -416.1 |
| A2 ANHYDRITE | 644.5 | -446.6 |
| GUELPH | 653.0 | -455.1 |

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 656.0 | 715.6 | | 2620 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 41.0 | | 12.0 | FRE | N | |
| 193.0 | | 40.0 | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 340 | 81.1 | 44.0 | SHO | | 0 |
| 273 | 60.2 | 157.9 | SHO | | 157.9 |
| 219 | 35.7 | 399.2 | CEM | 450 | 0 |
| 178 | 34.2 | 646.7 | CEM | 175 | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0 | 715.6 | GRNL | COMPUTALOG |
| 646.7 | 715.6 | DENL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:LAMBTON TWP:MOORE BLOCK: TRACT: LOT:23 CON:XII

WELL NAME:DOW #75 MOORE 23-XII PERMIT NO.:6262 INITIAL CLASS:OTH
OPERATOR :DOW CHEMICAL CANADA INC. TARGET SYS:SAL CURRENT STAT.:BRINE

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:191.5
BOT: LOG :599.4
ROTRY TOP:3.5 DRILLER:599.0
BOT:766.0 DEEPEND:
DRLG FLD :BRINE PLUGBK :

**DATES**

PERMIT:19830610
START :19830706
COMPTD:19830718
OFFCNF:19840718
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:191.9
EAST :60.3
WEST :
LAT :42 54 36
LONG :82 24 22

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:122.0 - 768.0 NO. BOTTLES:205
TRAY NUMBERS :7842
MISSNG INTERVAL:708.0-726.0

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN TOP | INTRVL BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN TOP | INTRVL BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN TOP | INTRVL BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 339.7 | 81.0 | 92.0 | CEM | 337 | |
| 245 | 53.0 | 595.0 | CEM | 825 | |
| 177.8 | 29.0 | 797.0 | HAN | | |
| 114.3 | 14.0 | 763.0 | HAN | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0 | 577.5 | TMPL | COMPUTALOG |
| 0 | 599.4 | CALP | COMPUTALOG |
| 575 | 732.0 | GRNL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 3.5 | 188.00 |
| DUNDEE | 170.6 | 20.90 |
| LUCAS | 205.8 | -14.30 |
| AMHERSTBURG | 286.0 | -94.50 |
| BOIS BLANC | 340.2 | -148.7 |
| BASS ISLANDS | 361.2 | -169.7 |
| G SHALE | 419.0 | -227.5 |
| F SHALE | 426.0 | -234.5 |
| E CARBONATE | 482.0 | -290.5 |
| D SALT | 563.6 | -372.1 |
| C SHALE | 573.5 | -382.0 |
| B MARKER | 588.3 | -396.8 |
| B SALT | 592.8 | -401.3 |
| B ANHYDRITE | 679.3 | -487.8 |
| A2 CARBONATE | 681.0 | -489.5 |
| A2 SALT | 727.0 | -535.5 |
| A2 ANHYDRITE | 765.5 | -574.0 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:LAMBTON TWP:MOORE BLOCK: TRACT: LOT:24 CON:XII

WELL NAME:DOW 76 MOORE 24-XII PERMIT NO.:6261 INITIAL CLASS:OTH
OPERATOR :DOW CHEMICAL CANADA INC. TARGET SYS:SAL CURRENT STAT.:BRINE

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:191.1
BOT: LOG :595.5
ROTRY TOP:3.5 DRILLER:596.0
BOT:767.0 DEEPEND:
DRLG FLD :BRINE PLUGBK :

**DATES**

PERMIT:19830610
START :19830720
COMPTD:19830729
OFFCNF:19840729
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:191.9
EAST :
WEST :31.1
LAT :42 54 36
LONG :82 24 27

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL: - NO. BOTTLES:
TRAY NUMBERS :
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 340.0 | 81.0 | 91.5 | CEM | 337 | 0 |
| 245.0 | 53.0 | 595.3 | CEM | 825 | 0 |
| 178.0 | 29.0 | 754.4 | HAN | | 0 |
| 114.0 | 14.0 | 762.0 | HAN | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 70.0 | 596.5 | CALP | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 3.5 | 187.00 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:LAMBTON TWP:MOORE BLOCK: TRACT:3 LOT:26 CON:III

WELL NAME:BEDFORD-POSTELL MOORE 3-26-III PERMIT NO.:6344 INITIAL CLASS:NPW
OPERATOR :BEDFORD PETROLEUMS LTD. TARGET SYS:SAL CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:1.4 KB ELEV:189.5
BOT:761.0 LOG :760.0
ROTRY TOP: DRILLER:761.0
BOT: DEEPEND:
DRLG FLD :DRY PLUGBK :

**DATES**

PERMIT:19830902
START :19830830
COMPTD:19831005
OFFCNF:19841005
WRKOVR:
ABNDND:19831012

**COORDINATES**

NORTH:853.5
SOUTH:
EAST :
WEST :76.2
LAT :42 47 52
LONG :82 25 56

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:47.0 - 761.0 NO. BOTTLES:249
TRAY NUMBERS :8281-8282
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN TOP | INTRVL BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN TOP | INTRVL BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN TOP | INTRVL BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 44.0 | | | FRE | N | |
| 250.0 | | 53.0 | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 273 | 60.0 | 46.2 | SHO | | 46.2 |
| 219 | 35.7 | 223.3 | SHO | | 223.3 |
| 178 | 29.8 | 448.9 | CEM | 35 | 300 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0.0 | 760.0 | GRNL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.4 | 188.10 |
| PORT LAMBTON | 45.8 | 143.70 |
| KETTLE POINT | 84.8 | 104.70 |
| HAMILTON | 145.5 | 44.00 |
| DUNDEE | 221.3 | -31.80 |
| LUCAS | 247.6 | -58.10 |
| BASS ISLANDS | 397.2 | -207.7 |
| G SHALE | 432.0 | -242.5 |
| F SHALE | 437.8 | -248.3 |
| E CARBONATE | 483.0 | -293.5 |
| D SALT | 505.8 | -316.3 |
| C SHALE | 516.3 | -326.8 |
| B MARKER | 550.5 | -361.0 |
| B SALT | 559.4 | -369.9 |
| B ANHYDRITE | 652.7 | -463.2 |
| A2 CARBONATE | 655.7 | -466.2 |
| A2 ANHYDRITE | 708.9 | -519.4 |
| A1 CARBONATE | 709.6 | -520.1 |
| A1 ANHYDRITE | 745.0 | -555.5 |
| GUELPH | 749.5 | -560.0 |
| GOAT ISLAND | 756.0 | -566.5 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:LAMBTON TWP:MOORE BLOCK: TRACT:8 LOT:23 CON:V

WELL NAME:DOW ET AL MOORE 8-23-V PERMIT NO.:6347 INITIAL CLASS:NPW
OPERATOR :DOW CHEMICAL CANADA INC. TARGET SYS:SAL CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:1.3 KB ELEV:191.2
BOT:739.0 LOG :739.0
ROTRY TOP: DRILLER:739.0
BOT: DEEPEND:
DRLG FLD :FORM.WATER PLUGBK :

**DATES**

PERMIT:19830423
START :19830918
COMPTD:19831024
OFFCNF:19841024
WRKOVR:
ABNDND:19831028

**COORDINATES**

NORTH:267.0
SOUTH:
EAST :
WEST :46.0
LAT :42 49 00
LONG :82 24 13

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:40.0 - 739.0 NO. BOTTLES:259
TRAY NUMBERS :8285-86
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 30.0 | | | FRE | N | |
| 252.0 | | | SUL | N | |
| 735.0 | 739.0 | | SAL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273 | 60.2 | 41.4 | SHO | | 41.4 |
| 219 | 35.7 | 220.7 | SHO | | 139.0 |
| 178 | 14.7 | 434.8 | CEM | 35 | 326.0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0.0 | 739.0 | GRNL | COMPUTALOG |
| 690.0 | 739.0 | DENL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.3 | 189.90 |
| PORT LAMBTON | 41.0 | 150.20 |
| KETTLE POINT | 69.0 | 122.20 |
| HAMILTON | 139.0 | 52.20 |
| DUNDEE | 216.0 | -24.80 |
| LUCAS | 249.0 | -57.80 |
| AMHERSTBURG | 321.0 | -129.8 |
| BOIS BLANC | 367.0 | -175.8 |
| BASS ISLANDS | 395.0 | -203.8 |
| G SHALE | 417.0- | -225.8 |
| F SHALE | 441.0 | -249.8 |
| E CARBONATE | 462.6 | -271.4 |
| D SALT | 508.0 | -316.8 |
| C SHALE | 516.0 | -324.8 |
| B SALT | 554.5 | -363.3 |
| A2 CARBONATE | 628.6 | -437.4 |
| A2 SALT | 671.6 | -480.4 |
| A1 CARBONATE | 696.0 | -504.8 |
| A1 ANHYDRITE | 723.0 | -531.8 |
| GUELPH | 726.6 | -535.4 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:LAMBTON TWP:SARNIA BLOCK: TRACT:4 LOT:13 CON:I

WELL NAME:DOW SARNIA 4-13-I PERMIT NO.:6357 INITIAL CLASS:NPW
OPERATOR :DOW CHEMICAL CANADA INC. TARGET SYS:SAL CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:1.4 KB ELEV:196.6
BOT:799.0 LOG :798.3
ROTRY TOP: DRILLER:799.0
BOT: DEEPEND:
DRLG FLD :DRY PLUGBK :

**DATES**

PERMIT:19830929
START :19831018
COMPTD:19831121
OFFCNF:19841121
WRKOVR:
ABNDND:19831121

**COORDINATES**

NORTH:
SOUTH:610.0
EAST :
WEST :107.0
LAT :42 55 01
LONG :82 19 33

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:42.0 - 800.0 NO. BOTTLES:267
TRAY NUMBERS :8639-40
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 175.0 | | 60.0 | SUL | N | |
| 791.0 | 794.0 | | SAL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 273.0 | 60.2 | 42.0 | SHO | | 42.0 |
| 219.0 | 35.7 | 139.5 | SHO | | 139.5 |
| 178.0 | 34.7 | 410.3 | CEM | 35 | 281.3 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0.0 | 796.0 | GRNL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.4 | 195.20 |
| KETTLE POINT | 41.4 | 155.20 |
| HAMILTON | 50.0 | 146.60 |
| DUNDEE | 137.5 | 59.10 |
| LUCAS | 165.0 | 31.60 |
| AMHERSTBURG | 254.2 | -57.60 |
| BOIS BLANC | 276.3 | -79.70 |
| BASS ISLANDS | 330.7 | -134.1 |
| G SHALE | 389.3 | -192.7 |
| F SHALE | 396.0 | -199.4 |
| E CARBONATE | 512.3 | -315.7 |
| D SALT | 535.7 | -339.1 |
| C SHALE | 551.8 | -355.2 |
| B MARKER | 565.4 | -368.8 |
| B SALT | 572.7 | -376.1 |
| A2 CARBONATE | 665.0 | -468.4 |
| A2 SALT | 710.6 | -514.0 |
| A1 CARBONATE | 742.0 | -545.4 |
| A1 ANHYDRITE | 784.3 | -587.7 |
| GUELPH | 794.0 | -597.4 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:LAMBTON TWP:SARNIA BLOCK: TRACT:6 LOT:12 CON:VIII

WELL NAME:BLUEWATER TRUE SARNIA 6-12-VIII PERMIT NO.:6260 INITIAL CLASS:DEV
OPERATOR :BLUEWATER OIL & GAS LTD. TARGET SYS:SAL CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:1.5 KB ELEV:180.8
BOT:861.5 LOG :866.5
ROTRY TOP: DRILLER:861.5
BOT: DEEPEND:
DRLG FLD :WATER PLUGBK :0

**DATES**

PERMIT:19830610
START :19830613
COMPTD:19830803
OFFCNF:19830903
WRKOVR:
ABNDND:19830905

**COORDINATES**

NORTH:
SOUTH:739.1
EAST :259.1
WEST :
LAT :43 00 04
LONG :83 19 04

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m³/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:40.0 - 861.5 NO. BOTTLES:279
TRAY NUMBERS :7845-7846
MISSNG INTERVAL:813.0-816.0

**GENERAL COMMENTS**

SAMPLE DEPTHS ARE 5M TO 6M HIGHER THAN LOG DEPTHS FROM TOP A-2 CARBONATE TO T.D.

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m³/d) | DENSITY (kg/m³) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 179.0 | | 60.0 | SUL | N | |
| 437.0 | | | SAL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 273 | 60.3 | 42.4 | SHO | | 42.4 |
| 219 | 35.7 | 142.5 | SHO | | 142.5 |
| 178.0 | 29.8 | 422.6 | CEM | 20 | 352.9 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0 | 866.0 | GRNL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.5 | 179.30 |
| HAMILTON | 40.5 | 140.30 |
| DUNDEE | 140.5 | 40.30 |
| LUCAS | 165.7 | 15.10 |
| AMHERSTBURG | 279.0 | -98.20 |
| BOIS BLANC | 313.0 | -132.2 |
| BASS ISLANDS | 354.4 | -173.6 |
| G SHALE | 434.5 | -253.7 |
| F SHALE | 441.5 | -260.7 |
| E CARBONATE | 567.9 | -387.1 |
| D SALT | 595.5 | -414.7 |
| C SHALE | 608.5 | -427.7 |
| B MARKER | 621.2 | -440.4 |
| B SALT | 628.0 | -447.2 |
| A2 CARBONATE | 709.5 | -528.7 |
| A2 SALT | 755.5 | -574.7 |
| A2 ANHYDRITE | 782.5 | -601.7 |
| A1 CARBONATE | 784.5 | -603.7 |
| GUELPH | 820.9 | -640.1 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:LAMBTON TWP:SOMBRA BLOCK: TRACT: LOT:14 CON:XIII

WELL NAME:TEC WILKESPORT #4 SOMBRA 14-XIII PERMIT NO.:6179 INITIAL CLASS:OTH
OPERATOR :TECUMSEH GAS STORAGE TARGET SYS:SAL CURRENT STAT.:STOR

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:179.7 KB ELEV:182.6
BOT:182.6 LOG :624.4
ROTRY TOP: DRILLER:626.5
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830414
START :19830603
COMPTD:19830712
OFFCNF:19840712
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:437.7
EAST :
WEST :85.3
LAT :42 44 11
LONG :82 21 42

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE:2827 kPa
OIL: m3/d
PRODUCING FORMATION:GUELPH
PRODUCING INTERVAL :561.5 - 624.4

**SAMPLES**

SAMPLE INTERVAL:38.0 - 626.0 NO. BOTTLES:187
TRAY NUMBERS :8178
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**GEOLOGY**

| FORMATION | DEPTH TOP | DEPTH ELEV |
|---|---|---|
| DRIFT | 2.9 | 179.70 |
| KETTLE POINT | 37.0 | 145.60 |
| HAMILTON | 104.0 | 78.60 |
| DUNDEE | 171.3 | 11.30 |
| LUCAS | 204.3 | -21.70 |
| AMHERSTBURG | 274.2 | -91.60 |
| BOIS BLANC | 291.8 | -109.2 |
| BASS ISLANDS | 333.0 | -150.4 |
| G SHALE | 368.8 | -186.2 |
| F SHALE | 375.0 | -192.4 |
| E CARBONATE | 408.0 | -225.4 |
| C SHALE | 445.5 | -262.9 |
| B MARKER | 452.5 | -269.9 |
| B SALT | 463.0 | -280.4 |
| A2 CARBONATE | 525.5 | -342.9 |
| A2 ANHYDRITE | 554.0 | -371.4 |
| GUELPH | 561.7 | -379.1 |

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | PRODN INTRVL BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 561.5 | 624.4 | | 2827 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | PRODN INTRVL BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | PRODN INTRVL BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 340 | 81.1 | 57.0 | CEM | 225 | 0 |
| 219 | 35.7 | 378.4 | CEM | 475 | 0 |
| 178 | 34.2 | 555.7 | CEM | 175 | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | LOGGED..... BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0 | 494.0 | CBND | COMPUTALOG |
| 550.7 | 623.0 | DENL | COMPUTALOG |
| 0 | 624.4 | GRNL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | CORED..... BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**DST RECORDS**

| DST INTERVAL TOP | DST INTERVAL BOT | FORMATION |
|---|---|---|

COUNTY:LAMBTON TWP:SOMBRA BLOCK: TRACT: LOT:15 CON:XIII

WELL NAME:TEC WILKESPORT #10 SOMBRA 15-XIII PERMIT NO.:6177 INITIAL CLASS:OTH
OPERATOR :TECUMSEH GAS STORAGE LTD. TARGET SYS:SAL CURRENT STAT.:GS

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:2.3 KB ELEV:183.0
BOT:615.0 LOG :615.0
ROTRY TOP: DRILLER:618.0
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830414
START :19830512
COMPTD:19830623
OFFCNF:19840623
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:280.4
EAST :42.7
WEST :
LAT :42 44 16
LONG :82 21 35

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:GUELPH
PRODUCING INTERVAL :559.0 - 615.0

**SAMPLES**

SAMPLE INTERVAL:38.0 - 618.0 NO. BOTTLES:219
TRAY NUMBERS :7847-7848
MISSNG INTERVAL:304.0-307.0 , 613.0-615.0

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 559.0 | 615.0 | | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 37.0 | | | FRE | N | |
| 174.0 | 276.0 | 30.0 | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 346.0 | 81.1 | 39.2 | SHO | | 0 |
| 273.0 | 60.2 | 171.9 | SHO | | 76.2 |
| 219.0 | 35.7 | 377.6 | CEM | 450 | 0 |
| 178.0 | 34.2 | 554.3 | CEM | 175 | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0 | 615.0 | GRNL | COMPUTALOG |
| 554.0 | 615.0 | DENL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 2.3 | 180.70 |
| KETTLE POINT | 38.0 | 145.00 |
| HAMILTON | 102.5 | 80.50 |
| DUNDEE | 169.0 | 14.00 |
| LUCAS | 202.0 | -19.00 |
| AMHERSTBURG | 273.0 | -90.00 |
| BOIS BLANC | 290.7 | -107.7 |
| BASS ISLANDS | 332.2 | -149.2 |
| G SHALE | 368.0 | -185.0 |
| F SHALE | 374.0 | -191.0 |
| E CARBONATE | 406.0 | -223.0 |
| C SHALE | 443.5 | -260.5 |
| B MARKER | 455.0 | -272.0 |
| B SALT | 461.6 | -278.6 |
| A2 CARBONATE | 522.9 | -339.9 |
| A2 ANHYDRITE | 552.1 | -369.1 |
| GUELPH | 559.6 | -376.6 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:LAMBTON TWP:SOMBRA BLOCK: TRACT: LOT:23 CON:IX

WELL NAME:UNION TERMINUS #12 SOMBRA 23-IX PERMIT NO.:6094 INITIAL CLASS:OTH
OPERATOR :UNION GAS LIMITED TARGET SYS:SAL CURRENT STAT.:STOR

**DRILLING**

CONTRACTOR:
RIG TYPE :CABLE DEPTHS.....
CABLE TOP:1.2 KB ELEV:189.4
BOT:559.0 LOG :559.0
ROTRY TOP: DRILLER:555.0
BOT: DEEPEND:
DRLG FLD :DRY PLUGBK :

**DATES**

PERMIT:19830202
START :19830211
COMPTD:19830329
OFFCNF:19840329
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:49.5
EAST :
WEST :163.8
LAT :42 41 21
LONG :82 17 50

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:GUELPH
PRODUCING INTERVAL :503.2 - 559.0

**SAMPLES**

SAMPLE INTERVAL:32.0 - 555.0 NO. BOTTLES:203
TRAY NUMBERS :7718
MISSNG INTERVAL:

**GENERAL COMMENTS**

B EQUIVALENT 428.6

GEOLOGY BY:G.M. CARD

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 493.5 | | | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 31.0 | | 15.0 | FRE | N | |
| 169.0 | | 52.0 | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 340 | 71.5 | 33.3 | SHO | | |
| 273 | 60.3 | 154.8 | SHO | | 154.8 |
| 219 | 35.7 | 346.6 | CEM | | |
| 178 | 34.1 | 495.7 | CEM | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| | 559.0 | GRNL | COMPUTALOG |
| | 333.7 | SONL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.2 | 188.20 |
| KETTLE POINT | 33.6 | 155.80 |
| HAMILTON | 86.0 | 103.40 |
| DUNDEE | 156.0 | 33.40 |
| LUCAS | 168.5 | 20.90 |
| AMHERSTBURG | 243.5 | -54.10 |
| BOIS BLANC | 255.0 | -65.60 |
| BASS ISLANDS | 298.4 | -109.0 |
| G SHALE | 332.0 | -142.6 |
| F SHALE | 339.8 | -150.4 |
| E CARBONATE | 361.0 | -171.6 |
| C SHALE | 401.0 | -211.6 |
| B MARKER | 416.8 | -227.4 |
| A2 CARBONATE | 471.0 | -281.6 |
| A2 ANHYDRITE | 495.0 | -305.6 |
| GUELPH | 499.0 | -309.6 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:LAMBTON TWP:WARWICK BLOCK: TRACT:1-5 LOT:26 CON:V

WELL NAME:DEVRAN 5 WARWICK 1-5-26-V SER PERMIT NO.:6423 INITIAL CLASS:OTH
OPERATOR :DEVRAN PETROLEUM LTD. TARGET SYS:DEV CURRENT STAT.:STRAT-SUS

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:247.5
BOT: LOG :135.5
ROTRY TOP:1.0 DRILLER:145.0
BOT:145.0 DEEPEND:
DRLG FLD :FORM.WATER PLUGBK :

**DATES**

PERMIT:19831220
START :19831209
COMPTD:19831212
OFFCNF:19841212
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:754.4
EAST :537.9
WEST :
LAT :42 56 56
LONG :81 49 13

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.0 | 246.50 |
| HAMILTON | 36.7 | 210.80 |
| DUNDEE | 113.0 | 134.50 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m³/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:37.4 - 139.9 NO. BOTTLES:59
TRAY NUMBERS :135
MISSNG INTERVAL:43.5-46.5 , 49.6-52.4

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| | 113.4 | | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m³/d) | DENSITY (kg/m³) | ANAL |
|---|---|---|---|---|
| 113.4 | 114.1 | SHOW | | N |
| 119.0 | 121.9 | show | | N |
| 131.0 | 134.8 | SHOW | | N |
| 135.8 | 138.8 | SHOW | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 178.0 | 25.3 | 51.0 | CEM | 30 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0.0 | 135.0 | GRNL | COMPUTALOG |
| 0.0 | 135.0 | DENL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. | BOXES | ANAL |
|---|---|---|---|---|---|---|
| 113.4 | 139.9 | CCF | COM | | | N |

COUNTY:LAMBTON TWP:WARWICK BLOCK: TRACT:1-7 LOT:26 CON:V

WELL NAME:DEVRAN 4 WARWICK 1-7-26-V SER PERMIT NO.:6422 INITIAL CLASS:OTH
OPERATOR :DEVRAN PETROLEUM LTD. TARGET SYS:DEV CURRENT STAT.:STRAT-SUS

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:247.4
BOT: LOG :130.0
ROTRY TOP:1.0 DRILLER:141.0
BOT:141.0 DEEPEND:
DRLG FLD :FORM.WATER PLUGBK :

**DATES**

PERMIT:19831220
START :19831203
COMPTD:19831205
OFFCNF:19841205
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:1089.7
EAST :228.6
WEST :
LAT :42 56 46
LONG :81 49 27

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.0 | 246.40 |
| HAMILTON | 38.0 | 209.40 |
| DUNDEE | 115.1 | 132.30 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:37.4 - 139.1 NO. BOTTLES:61
TRAY NUMBERS :131
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 115.7 | 120.4 | | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|
| 116.5 | 117.0 | SHOW | | N |
| 117.7 | 118.1 | SHOW | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 178.0 | 25.3 | 52.0 | CEM | 30 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0.0 | 130.0 | GRNL | COMPUTALOG |
| 101.0 | 130.0 | DENL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | NO. BOXES | ANAL |
|---|---|---|---|---|---|
| 115.7 | 120.4 | CCF | COM | | N |

COUNTY:LAMBTON TWP:WARWICK BLOCK: TRACT:2-3 LOT:28 CON:VSER

WELL NAME:DEVRAN 8 WARWICK 2-3-28-V SER PERMIT NO.:6421 INITIAL CLASS:OTH
OPERATOR :DEVRAN PETROLEUM LTD. TARGET SYS:DEV CURRENT STAT.:STRAT-SUS

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:247.2
BOT: LOG :145.0
ROTRY TOP:0.0 DRILLER:147.2
BOT:140.0 DEEPEND:
DRLG FLD :FORM.WATER PLUGBK :

**DATES**

PERMIT:19831220
START :19831215
COMPTD:19831218
OFFCNF:19841218
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:419.1
EAST :76.2
WEST :
LAT :42 56 06
LONG :81 48 39

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| HAMILTON | 40.5 | 206.70 |
| DUNDEE | 116.3 | 130.90 |

**DST RECORDS**

DST INTERVAL
TOP BOT FORMATION

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:51.0 - 142.8 NO. BOTTLES:101
TRAY NUMBERS :4642
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 178.0 | 25.3 | 51.0 | CEM | 30 | |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|
| 117.0 | 118.0 | SHOW | | N |
| 119.8 | 120.1 | SHOW | | N |
| 137.8 | 138.1 | SHOW | | N |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0.0 | 143.0 | GRNL | COMPUTALOG |
| 113.8 | 144.5 | DENL | COMPUTALOG |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|
| 116.0 | | CCF | COM | | N |

COUNTY:LAMBTON TWP:WARWICK BLOCK: TRACT:3 LOT:13 CON:VII

WELL NAME:KINGDON #4 WARWICK 3-3-13-VII PERMIT NO.:6407 INITIAL CLASS:NPW
OPERATOR :490900 ONTARIO LTD. - RON KINGDON TARGET SYS:DEV CURRENT STAT.:LOST-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:231.6
BOT: LOG :
ROTRY TOP:0.0 DRILLER:37.0
BOT:37.0 DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19831130
START :19831203
COMPTD:19831208
OFFCNF:19841208
WRKOVR:
ABNDND:19831208

**COORDINATES**

NORTH:
SOUTH:565.8
EAST :62.5
WEST :
LAT :43 05 04
LONG :81 55 28

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL: - NO. BOTTLES:
TRAY NUMBERS :
MISSNG INTERVAL:

**GENERAL COMMENTS**

NO SAMPLES OR LOGS

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 127.0 | | 32.0 | | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:LAMBTON TWP:WARWICK BLOCK: TRACT:3 LOT:28 CON:IV

WELL NAME:KINGDON #3 WARWICK 3-28-IV NER PERMIT NO.:6244 INITIAL CLASS:NPW
OPERATOR :490900 ONTARIO LTD. TARGET SYS:DEV CURRENT STAT.:OP-GS

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:0.0 KB ELEV:244.7
BOT:146.3 LOG :
ROTRY TOP: DRILLER:146.3
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830517
START :19830510
COMPTD:19830930
OFFCNF:19840930
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:509.0
EAST :61.3
WEST :
LAT :42 57 48
LONG :81 48 42

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | DEPTH TOP | DEPTH ELEV |
|---|---|---|
| DUNDEE | 115.4 | 129.30 |

**DST RECORDS**

DST INTERVAL
TOP BOT FORMATION

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:3.0 - 146.3 NO. BOTTLES:59
TRAY NUMBERS :2040
MISSNG INTERVAL:118.0-121.0

**GENERAL COMMENTS**

POOR SAMPLE RELIABILITY

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 125.6 | 113.3 | | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 117.0 | | SHOW | | N |
| 125.0 | | SHOW | | N |
| 131.0 | | SHOW | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 37.5 | | 18.0 | FRE | N | |
| 125.3 | | | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 178.0 | | 12.0 | | | |
| 127.0 | | 40.0 | SHO | | |

**LOGGING RECORD**

| LOGGED TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**CORING RECORD**

| CORED TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

COUNTY:LINCOLN TWP:CAISTOR BLOCK: TRACT:1 LOT:11 CON:IV

WELL NAME:SCHAUB ARABIAN CAISTOR 1-11-IV PERMIT NO.:6406 INITIAL CLASS:DEV
OPERATOR :SCHAUB, HANK TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:0.0 KB ELEV:192.5
BOT:118.9 LOG :
ROTRY TOP: DRILLER:118.9
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19831130
START :19831114
COMPTD:19831219
OFFCNF:19840119
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:150.9
EAST :
WEST :100.9
LAT :43 04 08
LONG :79 39 15

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| GOAT ISLAND | 58.0 | 134.50 |
| GASPORT | 73.3 | 119.20 |
| ROCHESTER | 85.0 | 107.50 |
| REYNALES | 96.4 | 96.10 |
| THOROLD | 101.0 | 91.50 |
| GRIMSBY | 102.8 | 89.70 |

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:18.0 - 112.8 NO. BOTTLES:28
TRAY NUMBERS :3093
MISSNG INTERVAL:21.0-24.0 , 33.0-37.0 , 37.0-40.0

**DST RECORDS**

DST INTERVAL
TOP BOT FORMATION

**GENERAL COMMENTS**

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 339.0 | | 0.043 | 586.1 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 18.2 | | 18.3 | FRE | N | |
| 22.9 | | 18.3 | SUL | N | |
| 37.2 | | 18.3 | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 177 | 25.3 | 14.6 | | | |
| 114 | 14.1 | 96.0 | BHP | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. | BOXES | ANAL |
|---|---|---|---|---|---|---|

COUNTY:LINCOLN TWP:CAISTOR BLOCK: TRACT:2 LOT:8 CON:I

WELL NAME:MARTINOSA #1 CAISTOR 2-8-I PERMIT NO.:6055 INITIAL CLASS:DEV
OPERATOR :MARTIN, ALBERT GORDON TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:0.6 KB ELEV:178.6
BOT:162.5 LOG :
ROTRY TOP: DRILLER:162.5
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19821108
START :19830125
COMPTD:19830302
OFFCNF:19830402
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:204.3
EAST :107.0
WEST :
LAT :43 01 18
LONG :79 38 11

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.6 | 178.00 |
| IRONDEQUOIT | 10.0 | 168.60 |
| REYNALES | 22.0 | 156.60 |
| MANITOULIN | 74.0 | 104.60 |
| QUEENSTON | 117.0 | 61.60 |

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:10.0 - 162.5 NO. BOTTLES:50
TRAY NUMBERS :1850
MISSNG INTERVAL:

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

**GENERAL COMMENTS**

**GEOLOGY BY:**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 106.7 | | | 600 | N |
| 117.6 | 120.7 | .17 | 600 | N |
| 123.1 | 123.7 | .17 | 600 | N |
| 144.8 | 145.7 | .06 | 552 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 12.8 | | 3.7 | FRE | N | |
| 19.5 | | 1.5 | SUL | N | |
| 50.3 | | 1.5 | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 219 | | 16.2 | SHO | | 0 |
| 114 | | 95.7 | PAC | 129 | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

COUNTY:LINCOLN TWP:CAISTOR BLOCK: TRACT:8 LOT:11 CON:IV

WELL NAME:HARTSTEIN 1 CAISTOR 8-11-IV PERMIT NO.:6329 INITIAL CLASS:DEV
OPERATOR :HARTSTEIN, MIKE TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:0.6 KB ELEV:188.1
BOT:119.2 LOG :
ROTRY TOP: DRILLER:119.2
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830824
START :19830820
COMPTD:19831010
OFFCNF:19831110
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:341.4
SOUTH:
EAST :
WEST :138.6
LAT :43 03 35
LONG :79 39 13

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS:.23 103m3/d PRESSURE:585.1 kPa
OIL: m3/d
PRODUCING FORMATION:GRIMSBY
PRODUCING INTERVAL :100.6 - 109.4

**SAMPLES**

SAMPLE INTERVAL:6.0 - 118.9 NO. BOTTLES:34
TRAY NUMBERS :5358
MISSNG INTERVAL:33.0-37.0 , 64.0-70.0

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 100.6 | 109.4 | .23 | 585.1 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 14.6 | | | FRE | N | |
| 18.3 | | | FRE | N | |
| 21.3 | | | SUL | N | |
| 50.3 | | | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 209.6 | 35.7 | 16.5 | | | |
| 139.7 | 17.9 | 97.8 | CEM | 349 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.6 | 187.50 |
| GUELPH | 16.5 | 171.60 |
| ROCHESTER | 85.3 | 102.80 |
| GRIMSBY | 100.6 | 87.50 |
| WHIRLPOOL | 113.0 | 75.10 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:MANITOULIN TWP:HOWLAND BLOCK: TRACT: LOT:6 CON:V

WELL NAME:OGS 83-5 MANITOULIN 6-V PERMIT NO.:6305 INITIAL CLASS:OTH
OPERATOR :ONTARIO GEOLOGICAL SURVEY TARGET SYS:PRE CURRENT STAT.:STRAT

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:282.8
BOT: LOG :136.4
ROTRY TOP:0.9 DRILLER:137.1
BOT:221.5 DEEPEND:
DRLG FLD :FRESH H2O PLUGBK :

**DATES**

PERMIT:19830722
START :19830726
COMPTD:19830804
OFFCNF:19840804
WRKOVR:
ABNDND:19840806

**COORDINATES**

NORTH:
SOUTH:120.2
EAST :
WEST :2.4
LAT :45 56 29
LONG :81 56 52

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.9 | 281.90 |
| COBOURG | 112.95 | 169.85 |
| COBOCONK | 189.7 | 93.10 |
| SHADOW LAKE | 208.4 | 74.40 |
| PRECAMBRIAN | 213.3 | 69.50 |

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:4.0 - 222.5 NO. BOTTLES:40
TRAY NUMBERS :9981-9982-9953
MISSNG INTERVAL:

**DST RECORDS**

DST INTERVAL
TOP BOT FORMATION

**GENERAL COMMENTS**

BLUE MOUNTAIN 109.7

GEOLOGY BY:G.M. CARD

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 74.7 | 75.9 | | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 114.7 | 129.3 | | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 146 | | 50.0 | CEM | | 0.0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 15.2 | 136.2 | DLLM | SCHLUMBERGER |
| 15.2 | 136.2 | NGRS | SCHLUMBERGER |
| 15.2 | 136.2 | BHCSON | SCHLUMBERGER |
| 142.0 | 213.0 | IES | SCHLUMBERGER |
| 15.2 | 136.2 | CNFD | SCHLUMBERGER |
| 142.0 | 213.0 | CNL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. | BOXES | ANAL |
|---|---|---|---|---|---|---|
| 0.0 | 222.9 | CC2 | COM | | | N |

COUNTY:MIDDLESEX TWP:DELAWARE BLOCK: TRACT:18 LOT:D CON:GORE

WELL NAME:BRETT CAMERON 1 DELEWARE 18 D GORE PERMIT NO.:6259 INITIAL CLASS:NPW
OPERATOR :H. BRETT & ASSOCIATES LTD. TARGET SYS:SAL CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:273.9
BOT: LOG :
ROTRY TOP: DRILLER:433.7
BOT:433.7 DEEPEND:
DRLG FLD : PLUGBK :412.7

**DATES**

PERMIT:19830524
START :19830527
COMPTD:19831014
OFFCNF:19841014
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:489.2
SOUTH:
EAST :141.7
WEST :
LAT :42 57 06
LONG :81 21 58

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS:0.567 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:GUELPH
PRODUCING INTERVAL :401.9 - 412.7

**SAMPLES**

SAMPLE INTERVAL:67.0 - 402.9 NO. BOTTLES:109
TRAY NUMBERS :5458
MISSNG INTERVAL:335.0-338.0

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN TOP | INTRVL BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| | 270.7 | | | N |
| | 401.9 | 0.57 | | N |
| | 428.2 | | | N |

**INITIAL OIL RECORD**

| PRODN TOP | INTRVL BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| | 100.0 | SHOW | | N |
| 103.3 | 104.3 | SHOW | | N |

**INITIAL WATER RECORD**

| PRODN TOP | INTRVL BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|
| 0.0 | 63.0 | | FRE | N |
| | 146.6 | | SUL | N |
| | 264.8 | | SUL | N |
| | 428.2 | | SAL | N |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 339.7 | 47.6 | 14.3 | SHO | | |
| 273.1 | 41.7 | 54.3 | SHO | | |
| 178.0 | 25.3 | 122.8 | PAC | | |
| 114.3 | 15.6 | 278.9 | CEM | 15 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DUNDEE | 63.7 | 210.20 |
| LUCAS | 108.0 | 167.90 |
| BOIS BLANC | 210.0 | 63.90 |
| BASS ISLANDS | 210.0 | 63.90 |
| F SHALE | 234.0 | 39.90 |
| E CARBONATE | 237.0 | 36.90 |
| C SHALE | 240.0 | 33.90 |
| B MARKER | 250.0 | 23.90 |
| B ANHYDRITE | 259.0 | 14.90 |
| A2 CARBONATE | 271.0 | 2.90 |
| A2 ANHYDRITE | 277.0 | -3.10 |
| A1 CARBONATE | 280.0 | -6.10 |
| GUELPH | 332.0 | -58.10 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:MIDDLESEX TWP:MOSA BLOCK: TRACT: LOT:6 CON:VI

WELL NAME:WALKER 502 MOSA 6-VI PERMIT NO.:6330 INITIAL CLASS:OTH
OPERATOR :AMERACRUDE INTERNATIONAL INC. TARGET SYS:DEV CURRENT STAT.:INJ

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:215.7
BOT: LOG :
ROTRY TOP:1.2 DRILLER:118.6
BOT:118.6 DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830824
START :19830902
COMPTD:19830908
OFFCNF:19840908
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:137.4
EAST :262.5
WEST :
LAT :42 46 01
LONG :81 47 40

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | DEPTH TOP | DEPTH ELEV |
|---|---|---|
| DRIFT | 1.2 | 214.50 |
| HAMILTON | 24.0 | 191.70 |
| DUNDEE | 85.0 | 130.70 |

**DST RECORDS**

| DST INTERVAL TOP | DST INTERVAL BOT | FORMATION |
|---|---|---|

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:18.0 - 102.1 NO. BOTTLES:28
TRAY NUMBERS :2047
MISSNG INTERVAL:

**GENERAL COMMENTS**

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | PRODN INTRVL BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | PRODN INTRVL BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 76.2 | | | | N |
| 102.1 | 109.1 | | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | PRODN INTRVL BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|
| 76.2 | | | | N |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 178 | 29.6 | 29.6 | CEM | 20 | 0.0 |
| 114 | | 116.7 | CEM | 40 | 0.0 |

**LOGGING RECORD**

| LOGGED..... TOP | LOGGED..... BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**CORING RECORD**

| CORED..... TOP | CORED..... BOT | CORE COND | CORE LCTN | CORE NO. | BOXES | ANAL |
|---|---|---|---|---|---|---|
| 102.1 | 109.1 | | | | | Y |

COUNTY:MIDDLESEX TWP:MOSA BLOCK: TRACT:1-1 LOT:7 CON:IV

WELL NAME:BEDFORD-POSTELL MOSA 1-1-7-IV PERMIT NO.:6122 INITIAL CLASS:DEV
OPERATOR :BEDFORD PETROLEUMS LTD. TARGET SYS:DEV CURRENT STAT.:OP

**DRILLING**

CONTRACTOR:
RIG TYPE :CABLE DEPTHS.....
CABLE TOP:0.2 KB ELEV:215.5
BOT:121.6 LOG :116.0
ROTRY TOP: DRILLER:121.6
BOT: DEEPEND:
DRLG FLD :FRESH H2O PLUGBK :119.9

**DATES**

PERMIT:19830223
START :
COMPTD:19830304
OFFCNF:19830404
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:51.4
EAST :
WEST :141.3
LAT :42 44 49
LONG :81 46 26

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:Y
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.2 | 215.30 |
| HAMILTON | 24.7 | 190.80 |
| DUNDEE | 88.0 | 127.50 |
| LUCAS | 111.4 | 104.10 |

**DST RECORDS**

DST INTERVAL
TOP BOT FORMATION

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL:0.3 m3/d
PRODUCING FORMATION:DUNDEE
PRODUCING INTERVAL :87.8 - 94.0

**SAMPLES**

SAMPLE INTERVAL:105.0 - 121.5 NO. BOTTLES:
TRAY NUMBERS :1957
MISSNG INTERVAL:

**GENERAL COMMENTS**

2ND PRODUCTION INTERVAL 111.8-114.0 LUCAS FM

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 117 | | 51.5 | | | 0 |
| 73 | 9.7 | 119.9 | CEM | 40 | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0 | 119.5 | GRNL | COMPUTALOG |
| 88.3 | 121.5 | DENL | COMPUTALOG |
| 63.7 | 114.3 | CMPL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

COUNTY:MIDDLESEX TWP:MOSA BLOCK: TRACT:1-2 LOT:7 CON:V

WELL NAME:BEDFORD-POSTELL MOSA 1-2-7-V PERMIT NO.:6303 INITIAL CLASS:DEV
OPERATOR :BEDFORD PETROLEUMS LTD. TARGET SYS:DEV CURRENT STAT.:OP

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:0.2 KB ELEV:214.0
BOT:120.0 LOG :116.0
ROTRY TOP: DRILLER:120.0
BOT: DEEPEND:
DRLG FLD :FRSH WATER PLUGBK :117.8

**DATES**

PERMIT:19830812
START :19830719
COMPTD:19830729
OFFCNF:19830829
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:83.9
EAST :
WEST :382.5
LAT :42 45 15
LONG :81 47 20

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:Y
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.2 | 213.80 |
| HAMILTON | 24.0 | 190.00 |
| DUNDEE | 81.7 | 132.30 |
| COLUMBUS | 104.7 | 109.30 |
| LUCAS | 109.0 | 105.00 |

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:21.0 - 120.0 NO. BOTTLES:40
TRAY NUMBERS :2222
MISSNG INTERVAL:

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

**GENERAL COMMENTS**

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 66.0 | 69.0 | SHOW | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 80.0 | 85.0 | SHOW | | N |
| 110.0 | 114.2 | SHOW | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 21.0 | | 3.0 | FRE | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 219.0 | 30.0 | 24.1 | SHO | | 0 |
| 114.0 | 14.0 | 117.8 | CEM | 40 | 0 |
| 60.3 | 7.3 | 11.1 | HAN | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 49.5 | 114.5 | GRNL | COMPUTALOG |
| 49.5 | 114.5 | CMPL | COMPUTALOG |
| 49.5 | 114.5 | CALP | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

COUNTY:MIDDLESEX TWP:MOSA BLOCK: TRACT:1-7 LOT:4 CON:III

WELL NAME:STRATHBURN MOSA 1-7-4-III PERMIT NO.:6397 INITIAL CLASS:OTH
OPERATOR :STRATHBURN PETROLEUM LTD. TARGET SYS:DEV CURRENT STAT.:STRAT-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:222.3
BOT: LOG :177.7
ROTRY TOP:1.1 DRILLER:177.7
BOT:177.7 DEEPEND:
DRLG FLD :FORM.WATER PLUGBK :

**DATES**

PERMIT:19831123
START :19831111
COMPTD:19831112
OFFCNF:19841112
WRKOVR:
ABNDND:19831113

**COORDINATES**

NORTH:265.0
SOUTH:
EAST :228.6
WEST :
LAT :42 44 32
LONG :81 44 31

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:31.3 - 177.7 NO. BOTTLES:41
TRAY NUMBERS :1913
MISSNG INTERVAL:162.4-165.5

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 103.7 | | SHOW | | N |
| 129.8 | 131.7 | SHOW | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 171.6 | | | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 139.7 | 20.8 | 48.4 | CEM | 20 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 1.0 | 175.2 | GRNL | COMPUTALOG |
| 100.0 | 177.0 | DENL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.1 | 221.20 |
| HAMILTON | 30.7 | 191.60 |
| DUNDEE | 103.2 | 119.10 |
| LUCAS | 125.5 | 96.80 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:MIDDLESEX TWP:MOSA BLOCK: TRACT:2-1 LOT:6 CON:VI

WELL NAME:WALKER 501 MOSA 6-VI PERMIT NO.:6309 INITIAL CLASS:OTH
OPERATOR :AMERACRUDE INTERNATIONAL INC. TARGET SYS:DEV CURRENT STAT.:OS

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:215.9
BOT: LOG :
ROTRY TOP:1.2 DRILLER:64.0
BOT:64.0 DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830803
START :19830801
COMPTD:19830804
OFFCNF:19840804
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:126.8
EAST :
WEST :249.6
LAT :42 46 03
LONG :81 47 37

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:31.0 - 58.8 NO. BOTTLES:9
TRAY NUMBERS :1738
MISSNG INTERVAL:58.8-64.0

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 54.6 | | SHOW | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 12.2 | | | FRE | N | |
| 54.6 | | | | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 178 | 29.8 | 30.8 | CEM | 35 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.2 | 214.70 |
| HAMILTON | 20.7 | 195.20 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:MIDDLESEX TWP:MOSA BLOCK: TRACT:2-2 LOT:6 CON:IV

WELL NAME:BEDFORD-POSTELL MOSA 2-2-6-IV PERMIT NO.:6116 INITIAL CLASS:DEV
OPERATOR :BEDFORD PETROLEUM LTD. TARGET SYS:DEV CURRENT STAT.:OP

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:0.2 KB ELEV:214.5
BOT:120.0 LOG :120.0
ROTRY TOP: DRILLER:120.0
BOT: DEEPEND:
DRLG FLD :FRE WATER PLUGBK :

**DATES**

PERMIT:19830217
START :19830217
COMPTD:19830218
OFFCNF:19830318
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:113
EAST :20
WEST :
LAT :42 44 25
LONG :81 46 25

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:Y
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.2 | 214.30 |
| KETTLE POINT | 20.0 | 194.50 |
| HAMILTON | 23.0 | 191.50 |
| DUNDEE | 84.3 | 130.20 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL:0.1 m3/d
PRODUCING FORMATION:DUNDEE
PRODUCING INTERVAL :108.5 - 116.3

**SAMPLES**

SAMPLE INTERVAL:104.0 - 120.0 NO. BOTTLES:10
TRAY NUMBERS :1957
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 118.0 | | 54.4 | SHO | | 0 |
| 73.0 | 9.7 | 119.6 | CEM | 40 | 0 |
| 31.8 | | 116.6 | HAN | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0 | 118.0 | GRNL | COMPUTALOG |
| 81.5 | 118.0 | DENL | COMPUTALOG |
| 66.0 | 116.5 | CMPL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

COUNTY:MIDDLESEX TWP:MOSA BLOCK: TRACT:2-4 LOT:5 CON:II

WELL NAME:STRATHBURN MOSA 2-4-5-II PERMIT NO.:6395 INITIAL CLASS:OTH
OPERATOR :STRATHBURN PETROLEUM LTD. TARGET SYS:DEV CURRENT STAT.:STRAT-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:220.2
BOT: LOG :165.1
ROTRY TOP:1.1 DRILLER:165.5
BOT:165.5 DEEPEND:
DRLG FLD :FORM.WATER PLUGBK :

**DATES**

PERMIT:19831123
START :19831113
COMPTD:19831114
OFFCNF:19841114
WRKOVR:
ABNDND:19831115

**COORDINATES**

NORTH:
SOUTH:435.9
EAST :
WEST :228.6
LAT :42 44 04
LONG :81 44 24

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.1 | 219.10 |
| HAMILTON | 40.2 | 180.00 |
| DUNDEE | 107.5 | 112.70 |
| LUCAS | 132.5 | 87.70 |

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:49.6 - 165.5 NO. BOTTLES:39
TRAY NUMBERS :1925
MISSNG INTERVAL:

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 134.0 | | | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 139.7 | 20.8 | 46.0 | CEM | 20 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0.0 | 162.5 | GRNL | COMPUTALOG |
| 100.0 | 164.5 | DENL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

COUNTY:MIDDLESEX TWP:MOSA BLOCK: TRACT:2-4 LOT:6 CON:IV

WELL NAME:BEDFORD-POSTELL MOSA 2-4-6-IV PERMIT NO.:6101 INITIAL CLASS:DEV
OPERATOR :BEDFORD PETROLEUMS LTD. TARGET SYS:DEV CURRENT STAT.:OP

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:0.2 KB ELEV:217.2
BOT:125.0 LOG :125.8
ROTRY TOP: DRILLER:125.0
BOT: DEEPEND:
DRLG FLD :WATER PLUGBK :124.8

**DATES**

PERMIT:19830128
START :19830131
COMPTD:19830210
OFFCNF:19830310
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:410.4
EAST :
WEST :237.0
LAT :42 44 54
LONG :81 46 03

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:Y
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.2 | 217.00 |
| HAMILTON | 29.0 | 188.20 |
| DUNDEE | 87.5 | 129.70 |
| COLUMBUS | 112.8 | 104.40 |
| LUCAS | 120.6 | 96.60 |

**DST RECORDS**

DST INTERVAL
TOP BOT FORMATION

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:26.0 - 125.0 NO. BOTTLES:41
TRAY NUMBERS :1957
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|
| 92.0 | 95.0 | | | N |
| 114.0 | 119.0 | | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 26.0 | | 15.0 | FRE | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 219 | 35.7 | 28.1 | SHO | | 0 |
| 114 | 14.1 | 124.8 | SHO | 28 | 0 |
| 60.3 | 7.3 | 114.5 | SHO | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0 | 123.5 | GRNL | COMPUTALOG |
| 86.7 | 125.0 | DENL | COMPUTALOG |
| 73.0 | 125.0 | CMPL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

COUNTY:MIDDLESEX TWP:MOSA BLOCK: TRACT:2-5 LOT:3 CON:II

WELL NAME:STRATHBURN MOSA 2-5-3-II PERMIT NO.:6361 INITIAL CLASS:OTH
OPERATOR :STRATHBURN PETROLEUM LTD. TARGET SYS:DEV CURRENT STAT.:STRAT-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:0.4 KB ELEV:221.3
BOT:164.7 LOG :164.7
ROTRY TOP: DRILLER:165.0
BOT: DEEPEND:
DRLG FLD :FORM WATER PLUGBK :

**DATES**

PERMIT:19831005
START :19831016
COMPTD:19831029
OFFCNF:19841029
WRKOVR:
APNDND:19831031

**COORDINATES**

NORTH:
SOUTH:756.1
EAST :
WEST :228.6
LAT :42 44 26
LONG :81 43 37

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:39.5 - 165.0 NO. BOTTLES:54
TRAY NUMBERS :2033
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 102.4 | | | | N |
| 124.0 | 127.0 | | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 35.0 | | | FRE | N | |
| 157.0 | 159.0 | 48.0 | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 219.1 | 35.7 | 38.7 | SHO | | 38.7 |
| 177.8 | 29.8 | 106.4 | SHO | | 106.4 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0.0 | 161.5 | GRNL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. | BOXES | ANAL |
|---|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.4 | 220.90 |
| HAMILTON | 38.2 | 183.10 |
| DUNDEE | 102.5 | 118.80 |
| LUCAS | 125.5 | 95.80 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:MIDDLESEX TWP:MOSA BLOCK: TRACT:2-5 LOT:3 CON:R II N

WELL NAME:STRATHBURN MOSA 2-5-3-RII N PERMIT NO.:6363 INITIAL CLASS:OTH
OPERATOR :STRATHBURN PETROLEUMS LTD. TARGET SYS:DEV CURRENT STAT.:STRAT-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:222.5
BOT: LOG :164.6
ROTRY TOP:1.1 DRILLER:165.5
BOT:165.5 DEEPEND:
DRLG FLD :FORM.WATER PLUGBK :

**DATES**

PERMIT:19831005
START :19831030
COMPTD:19831031
OFFCNF:19841031
WRKOVR:
ABNDND:19831101

**COORDINATES**

NORTH:575.5
SOUTH:
EAST :
WEST :228.3
LAT :42 43 20
LONG :81 42 12

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:49.6 - 165.5 NO. BOTTLES:36
TRAY NUMBERS :1925
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 153.0 | | | SUL | N | |
| 163.0 | | | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 139.7 | 20.8 | 46.0 | CEM | 20 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0.0 | 161.5 | GRNL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.1 | 221.40 |
| HAMILTON | 37.4 | 185.10 |
| DUNDEE | 108.2 | 114.30 |
| LUCAS | 140.1 | 82.40 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:MIDDLESEX TWP:MOSA BLOCK: TRACT:2-5 LOT:3 CON:RIN

WELL NAME:STRATHBURN MOSA 2-5-3-RI N PERMIT NO.:6386 INITIAL CLASS:OTH
OPERATOR :STRATHBURN PETROLEUM LTD. TARGET SYS:DEV CURRENT STAT.:STRAT-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:221.9
BOT: LOG :171.1
ROTRY TOP:1.1 DRILLER:171.6
BOT:171.6 DEEPEND:
DRLG FLD :FORM.WATER PLUGBK :

**DATES**

PERMIT:19831107
START :19831101
COMPTD:19831102
OFFCNF:19841102
WRKOVR:
ABNDND:19831103

**COORDINATES**

NORTH:573.0
SOUTH:
EAST :
WEST :228.2
LAT :42 42 49
LONG :81 41 32

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:55.7 - 171.6 NO. BOTTLES:38
TRAY NUMBERS :2919
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|
| 104.0 | 110.0 | SHOW | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 159.0 | | | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 139.7 | 20.8 | 49.3 | CEM | 20 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 1.0 | 168.8 | GRNL | COMPUTALOG |
| 102.0 | 170.5 | DENL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.1 | 220.80 |
| HAMILTON | 44.2 | 177.70 |
| DUNDEE | 105.0 | 116.90 |
| LUCAS | 138.5 | 83.40 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:MIDDLESEX TWP:MOSA BLOCK: TRACT:3-2 LOT:7 CON:IV

WELL NAME:BEDFORD-POSTELL MOSA 3-2-7-IV PERMIT NO.:6126 INITIAL CLASS:DEV
OPERATOR :BEDFORD PETROLEUMS LTD. TARGET SYS:DEV CURRENT STAT.:OP

**DRILLING**

CONTRACTOR:
RIG TYPE :CABLE DEPTHS.....
CABLE TOP:0.2 KB ELEV:221.1
BOT:145.0 LOG :145.4
ROTRY TOP: DRILLER:145.0
BOT: DEEPEND:
DRLG FLD :FRESH H2O PLUGBK :107.0

**DATES**

PERMIT:19830311
START :19830308
COMPTD:19830321
OFFCNF:19830421
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:227.1
EAST :86.8
WEST :
LAT :42 44 35
LONG :81 46 38

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:Y
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:23.0 - 145.0 NO. BOTTLES:46
TRAY NUMBERS :1878
MISSNG INTERVAL:

**GENERAL COMMENTS**

TAS TYPE 28% HCL

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|
| 101.0 | 104.5 | | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 23.0 | | 10.0 | FRE | N | |
| 23.0 | | 10.0 | FRE | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 219 | 30 | 34.0 | SHO | | 0 |
| 114 | 14 | 106.2 | CEM | 40 | 0 |
| 60 | 6.8 | 100.3 | HAN | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 49.0 | 104.3 | CMPL | COMPUTALOG |
| C | 145.4 | GRNL | COMPUTALOG |
| 99.0 | 145.4 | DENL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | .2 | 220.90 |
| HAMILTON | 26.5 | 194.60 |
| DUNDEE | 101.0 | 120.10 |
| LUCAS | 124.2 | 96.90 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:MIDDLESEX TWP:MOSA BLOCK: TRACT:3-5 LOT:2 CON:R II N

WELL NAME:STRATHBURN MOSA 3-5-2-RII N PERMIT NO.:6362 INITIAL CLASS:DEV
OPERATOR :STRATHBURN PETROLEUMS LTD. TARGET SYS:DEV CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:0.4 KB ELEV:222.6
BOT:159.5 LOG :159.5
ROTRY TOP: DRILLER:158.0
BOT: DEEPEND:
DRLG FLD :FORM. WATR PLUGBK :

**DATES**

PERMIT:19831005
START :19830930
COMPTD:19831013
OFFCNF:19831113
WRKOVR:
ABNDND:19831015

**COORDINATES**

NORTH:438.1
SOUTH:
EAST :374.4
WEST :
LAT :42 44 04
LONG :81 44 24

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:48.0 - 158.0 NO. BOTTLES:45
TRAY NUMBERS :2127
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|
| 105.0 | 106.0 | | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|
| 38.0 | | | FRE | N |
| 152.0 | 153.0 | 86.3 | SUL | N |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 219.1 | 35.7 | 45.1 | SHO | | 23.1 |
| 177.8 | 29.8 | 106.4 | SHO | | 106.4 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0.0 | 157.0 | GRNL | COMPUTALOG |
| 106.0 | 158.7 | DENL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.4 | 222.20 |
| HAMILTON | 48.0 | 174.60 |
| DUNDEE | 105.5 | 117.10 |
| LUCAS | 137.0 | 85.60 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:MIDDLESEX TWP:MOSA BLOCK: TRACT:3-6 LOT:6 CON:IV

WELL NAME:BEDFORD-POSTELL MOSA 3-6-6-IV PERMIT NO.:6081 INITIAL CLASS:NPW
OPERATOR :BEDFORD PETROLEUMS LTD. TARGET SYS:DEV CURRENT STAT.:OS-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:0.2 KB ELEV:217.1
BOT:132.7 LOG :132.7
ROTRY TOP: DRILLER:130.0
BOT: DEEPEND:
DRLG FLD :WATER PLUGBK :

**DATES**

PERMIT:19830106
START :19830107
COMPTD:19830119
OFFCNF:19840119
WRKOVR:
ABNDND:19830121

**COORDINATES**

NORTH:423.8
SOUTH:
EAST :76.1
WEST :
LAT :42 44 34
LONG :81 45 58

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | DEPTH TOP | DEPTH ELEV |
|---|---|---|
| DRIFT | 0.2 | 216.90 |
| HAMILTON | 25.4 | 191.70 |
| DUNDEE | 93.9 | 123.20 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:24.0 - 130.0 NO. BOTTLES:40
TRAY NUMBERS :1845
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|
| 119.0 | | SHOW | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 27.0 | | 15.0 | FRE | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 219 | 35.7 | 33.0 | SHO | | 33.0 |

**LOGGING RECORD**

| LOGGED TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 1.0 | 131.0 | GRNL | COMPUTALOG |
| 93.0 | 132.0 | DENL | COMPUTALOG |

**CORING RECORD**

| CORED TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

COUNTY:MIDDLESEX TWP:MOSA BLOCK: TRACT:3-6 LOT:6 CON:VI

WELL NAME:SECORD 601 MOSA 3-6-6-VI PERMIT NO.:6308 INITIAL CLASS:DEV
OPERATOR :AMERACRUDE INTERNATIONAL INC. TARGET SYS:DEV CURRENT STAT.:OP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:207.9
BOT: LOG :
ROTRY TOP:1.2 DRILLER:118.0
BOT:118.0 DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830803
START :19830809
COMPTD:19830817
OFFCNF:19830917
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:442.0
SOUTH:
EAST :54.9
WEST :
LAT :42 45 39
LONG :81 47 22

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:

PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:18.3 - 118.0 NO. BOTTLES:29
TRAY NUMBERS :1864
MISSNG INTERVAL:21.3-24.4 , 25.9-27.4 , 98.1-113.1

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 73.2 | | | | |
| 76.2 | | | | |
| 96.9 | | | | |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|
| 73.2 | | | | |
| 76.2 | | | | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 178 | 29.8 | 23.8 | CEM | 20 | 0.0 |
| 114 | 15.6 | 117.3 | CEM | 20 | 0.0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|
| 98.1 | 107.0 | | | | Y |

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.2 | 206.70 |
| DUNDEE | 73.0 | 134.90 |
| LUCAS | 91.0 | 116.90 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY.MIDDLESEX TWP:MOSA BLOCK: TRACT:3-7 LOT:6 CON:R I N

WELL NAME:STRATHBURN MOSA 3-7-6-RI N PERMIT NO.:6385 INITIAL CLASS:OTH
OPERATOR :STRATHBURN PETROLEUM LTD. TARGET SYS:DEV CURRENT STAT.:STRAT-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:0.4 KB ELEV:210.6
BOT:160.5 LOG :159.5
ROTRY TOP: DRILLER:158.5
BOT: DEEPEND:
DRLG FLD :FORM.WATER PLUGBK :

**DATES**

PERMIT:19831107
START :19831104
COMPTD:19831110
OFFCNF:19841110
WRKOVR:
ABNDND:19831112

**COORDINATES**

NORTH:76.2
SOUTH:
EAST :83.8
WEST :
LAT :42 41 47
LONG :81 42 19

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.4 | 210.20 |
| HAMILTON | 31.0 | 179.60 |
| DUNDEE | 99.2 | 111.40 |
| LUCAS | 134.7 | 75.90 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:66.0 - 158.0 NO. BOTTLES:35
TRAY NUMBERS :1913
MISSNG INTERVAL:

**GENERAL COMMENTS**

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 30.0 | | | FRE | N | |
| 146.0 | | 89.0 | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 219 | 35.7 | 39.7 | SHO | | 8.0 |
| 178 | 29.8 | 73.3 | SHO | | 73.3 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 0.0 | 157.0 | GRNL | COMPUTALOG |
| 96.5 | 158.5 | DENL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

COUNTY:MIDDLESEX TWP:MOSA BLOCK: TRACT:4-1 LOT:7 CON:IV

WELL NAME:BEDFORD-POSTELL MOSA 4-1-7-IV PERMIT NO.:6253 INITIAL CLASS:DEV
OPERATOR :BEDFORD PETROLEUMS LTD. TARGET SYS:DEV CURRENT STAT.:OP

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:0.2 KB ELEV:215.2
BOT:112.0 LOG :93.0
ROTRY TOP: DRILLER:94.0
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830512
START :19830514
COMPTD:19830516
OFFCNF:19830616
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:195.5
EAST :
WEST :151.3
LAT :42 44 45
LONG :81 46 27

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:Y
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.2 | 215.00 |
| HAMILTON | 30.0 | 185.20 |
| DUNDEE | 89.5 | 125.70 |

**DST RECORDS**

DST INTERVAL
TOP BOT FORMATION

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:DUNDEE
PRODUCING INTERVAL :90.5 - 94.5

**SAMPLES**

SAMPLE INTERVAL: - NO. BOTTLES:
TRAY NUMBERS :
MISSNG INTERVAL:

**GENERAL COMMENTS**

WELL DEEPENED TO 112.0 M. AFTER LOGGING

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 32 | 1.1 | 105.0 | HAN | | |
| 73 | 9.7 | 109.5 | CEM | 32 | |
| 117 | | 53.0 | SHO | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 64.0 | 109.5 | CMPL | COMPUTALOG |
| 0.0 | 91.5 | GRNL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

COUNTY:NORFOLK TWP:CHARLOTTEVILLE BLOCK: TRACT: LOT:5 CON:A

WELL NAME:L.ERIE GAS 1 CHARLOTTEVILLE 5-A PERMIT NO.:6324 INITIAL CLASS:OTH
OPERATOR :MICHAEL W. BOUK TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:0.0 KB ELEV:209.2
BOT:415.0 LOG :
ROTRY TOP: DRILLER:415.0
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830818
START :19830818
COMPTD:19830912
OFFCNF:19840912
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:1510.3
EAST :
WEST :190.5
LAT :42 40 40
LONG :80 23 03

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL: - NO. BOTTLES:
TRAY NUMBERS :
MISSNG INTERVAL:

**GENERAL COMMENTS**

NO SAMPLES AND NO LOGS

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 388.0 | 392.3 | | | N |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

COUNTY:NORFOLK TWP:CHARLOTTEVILLE BLOCK: TRACT:1 LOT:4 CON:IV

WELL NAME:BLUEWATER 5 CHARLOTTEVILLE 1-4-IV PERMIT NO.:6320 INITIAL CLASS:DEV
OPERATOR :BAYVIEW EXPLORATIONS LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :CABLE DEPTHS.....
CABLE TOP:0.6 KB ELEV:229.2
BOT:417.0 LOG :
ROTRY TOP: DRILLER:417.0
BOT: DEEPEND:25.0
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830808
START :19830808
COMPTD:19830811
OFFCNF:19840811
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:143.3
EAST :
WEST :135.6
LAT :42 43 45
LONG :80 25 56

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | DEPTH TOP | DEPTH ELEV |
|---|---|---|
| DRIFT | 0.6 | 228.60 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m³/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL: - NO. BOTTLES:
TRAY NUMBERS :
MISSNG INTERVAL:

**GENERAL COMMENTS**

NO LOGS AND NO SAMPLES - SEE ORIGINAL TICKET FOR PICKS

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m³/d) | DENSITY (kg/m³) | ANAL |
|---|---|---|---|---|

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

COUNTY:NORFOLK TWP:CHARLOTTEVILLE BLOCK: TRACT:1 LOT:4 CON:IX

WELL NAME:GREEN DIAMOND #1 CHARLOTTEVILLE 1-4-IX PERMIT NO.:6245 INITIAL CLASS:DEV
OPERATOR :W.T. CHATHAM ASSOCIATES LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:224.4
BOT: LOG :379.3
ROTRY TOP:0.3 DRILLER:379.4
BOT:379.3 DEEPEND:
DRLG FLD :DRY (GA PLUGBK :372.5

**DATES**

PERMIT:19830518
START :19830525
COMPTD:19830613
OFFCNF:19830713
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:325.7
EAST :
WEST :184.7
LAT :42 46 56
LONG :80 28 31

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS:34.8 103m3/d PRESSURE:3275 kPa
OIL: m3/d
PRODUCING FORMATION:THOROLD
PRODUCING INTERVAL :363.3 - 364.2

**SAMPLES**

SAMPLE INTERVAL:57.9 - 379.5 NO. BOTTLES:125
TRAY NUMBERS :2000
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:J. LAU**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 362.7 | 363.6 | 0.08 | 1896 | N |
| 363.6 | 364.2 | 0.15 | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 62.5 | | | FRE | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 219.1 | | 66.4 | CEM | 85 | |
| 114.3 | | 360.5 | CEM | 330 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 1.0 | 377.3 | GRNL | COMPUTALOG |
| 360.2 | 379.3 | DENL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. | BOXES | ANAL |
|---|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.3 | 224.10 |
| DUNDEE | 57.5 | 166.90 |
| LUCAS | 72.7 | 151.70 |
| AMHERSTBURG | 99.5 | 124.90 |
| BOIS BLANC | 109.8 | 114.60 |
| BASS ISLANDS | 147.0 | 77.40 |
| G SHALE | 163.0 | 61.40 |
| F SHALE | 170.0 | 54.40 |
| E CARBONATE | 208.0 | 16.40 |
| C SHALE | 233.0 | -8.60 |
| B MARKER | 240.0 | -15.60 |
| B ANHYDRITE | 252.5 | -28.10 |
| A2 CARBONATE | 257.0 | -32.60 |
| A1 CARBONATE | 264.7 | -40.30 |
| GUELPH | 272.8 | -48.40 |
| ROCHESTER | 340.4 | -116.0 |
| IRONDEQUOIT | 358.7 | -134.3 |
| REYNALES | 360.8 | -136.4 |
| THOROLD | 362.2 | -137.8 |
| GRIMSBY | 367.2 | -142.8 |
| CABOT HEAD | 375.0 | -150.6 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:NORFOLK TWP:CHARLOTTEVILLE BLOCK: TRACT:1 LOT:5 CON:III

WELL NAME:BLUEWATER #6 CHARLOTTEVILLE 1-5-III PERMIT NO.:6304 INITIAL CLASS:EXT
OPERATOR :BAYVIEW EXPLORATIONS LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:0.5 KB ELEV:225.5
BOT:414.5 LOG :
ROTRY TOP: DRILLER:414.5
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830721
START :19830712
COMPTD:19830715
OFFCNF:19840715
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:103.6
EAST :
WEST :21.6
LAT :42 43 19
LONG :80 25 00

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : ,-

**SAMPLES**

SAMPLE INTERVAL: - NO. BOTTLES:
TRAY NUMBERS :
MISSNG INTERVAL:

**GENERAL COMMENTS**

NO LOGS, NO SAMPLES -SEE ORIGINAL WELL CARD FOR GEOLOGIC PICKS

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 386.0 | | | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.5 | 225.00 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:NORFOLK TWP:CHARLOTTEVILLE BLOCK: TRACT:3 LOT:2 CON:V

WELL NAME:METALORE 69 CHARLOTTEVILLE 3-2-V PERMIT NO.:6118 INITIAL CLASS:DEV
OPERATOR :METALORE RESOURCES LIMITED TARGET SYS:CLI CURRENT STAT.:GS-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROTARY DEPTHS.....
CABLE TOP: KB ELEV:223.0
BOT: LOG :
ROTRY TOP: DRILLER:424.3
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830215
START :19830219
COMPTD:19830311
OFFCNF:19830411
WRKOVR:
ABNDND:19830316

**COORDINATES**

NORTH:
SOUTH:501.9
EAST :212.5
WEST :
LAT :42 43 50
LONG :80 27 15

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : . -

**SAMPLES**

SAMPLE INTERVAL:77.0 - 423.1 NO. BOTTLES:99
TRAY NUMBERS :2046
MISSNG INTERVAL:283.0-375.0,388.6-390.0

**GENERAL COMMENTS**

RIG TYPE COMBINATION ROTARY/CABLE

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 219 | | 80.8 | | | 80.8 |
| 178 | | 82.6 | | | 82.6 |
| 127 | | 385.6 | | | 385.6 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. | NO. BOXES | ANAL |
|---|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.5 | 222.50 |
| AMHERSTBURG | 115.0 | 108.00 |
| BOIS BLANC | 128.0 | 95.00 |
| SPRINGVALE | 152.0 | 71.00 |
| BASS ISLANDS | 171.0 | 52.00 |
| G SHALE | 187.0 | 36.00 |
| F SHALE | 195.0 | 28.00 |
| E CARBONATE | 219.0 | 4.00 |
| C SHALE | 254.0 | -31.00 |
| B ANHYDRITE | 274.0 | -51.00 |
| A2 CARBONATE | 280.0 | -57.00 |
| ROCHESTER | 378.0 | -155.0 |
| REYNALES | 384.6 | -161.6 |
| THOROLD | 385.6 | -162.6 |
| GRIMSBY | 393.5 | -170.5 |
| CABOT HEAD | 397.8 | -174.8 |
| MANITOULIN | 418.5 | -195.5 |
| QUEENSTON | 422.1 | -199.1 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:NORFOLK TWP:CHARLOTTEVILLE BLOCK: TRACT:3 LOT:4 CON:V

WELL NAME:METALORE 71 CHARLOTTEVILLE 3-4-V PERMIT NO.:6252 INITIAL CLASS:DEV
OPERATOR :METALORE RESOURCES LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:746.0
BOT: LOG :
ROTRY TOP: DRILLER:421.0
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830513
START :19830411
COMPTD:19830429
OFFCNF:19830529
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:682.5
EAST :150.8
WEST :
LAT :42 44 05
LONG :80 26 27

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:75.0 - 421.2 NO. BOTTLES:136
TRAY NUMBERS :2035
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 391.1 | 396.8 | 878.168 | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 92.9 | | | FRE | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 139.7 | | 389.2 | | | |
| 219.1 | | 75.6 | | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.6 | 745.40 |
| A2 CARBONATE | 75.3 | 670.70 |
| A2 ANHYDRITE | 115.0 | 631.00 |
| A1 CARBONATE | 158.0 | 588.00 |
| A1 ANHYDRITE | 192.0 | 554.00 |
| GUELPH | 295.6 | 450.40 |
| ROCHESTER | 363.3 | 382.70 |
| REYNALES | 381.0 | 365.00 |
| THOROLD | 383.7 | 362.30 |
| GRIMSBY | 386.2 | 359.80 |
| CABOT HEAD | 392.0 | 354.00 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:NORFOLK TWP:CHARLOTTEVILLE BLOCK: TRACT:4 LOT:2 CON:V

WELL NAME:METALORE 70 CHARLOTTEVILLE 4-2-V PERMIT NO.:6140 INITIAL CLASS:DEV
OPERATOR :METALORE RESOURCES LIMITED TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROTARY DEPTHS.....
CABLE TOP: KB ELEV:222.7
BOT: LOG :423.1
ROTRY TOP: DRILLER:420.6
BOT: DEEPEND:
DRLG FLD :DRY PLUGBK :

**DATES**

PERMIT:19830321
START :19830315
COMPTD:19830405
OFFCNF:19830505
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:591.3
EAST :
WEST :187.8
LAT :42 43 52
LONG :80 27 05

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:75.3 - 420.6 NO. BOTTLES:138
TRAY NUMBERS :1855
MISSNG INTERVAL:

**GENERAL COMMENTS**

RIG TYPE COMBINATION ROTARY/CABLE

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 175.3 | 190.5 | | | N |
| 382.8 | 383.4 | 0.04 | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 175.3 | 190.5 | | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 219 | | 77.7 | | | 0 |
| 140 | | 379.8 | | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 274.3 | 421.8 | GRNL | COMPUTALOG |
| 381.6 | 423.1 | DENL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.3 | 222.40 |
| LUCAS | 88.0 | 134.70 |
| AMHERSTBURG | 115.0 | 107.70 |
| BOIS BLANC | 133.7 | 89.00 |
| BASS ISLANDS | 171.0 | 51.70 |
| G SHALE | 189.0 | 33.70 |
| F SHALE | 195.0 | 27.70 |
| E CARBONATE | 219.0 | 3.70 |
| C SHALE | 253.0 | -30.30 |
| B MARKER | 262.0 | -39.30 |
| B ANHYDRITE | 274.0 | -51.30 |
| A2 CARBONATE | 280.0 | -57.30 |
| A1 CARBONATE | 293.0 | -70.30 |
| GUELPH | 296.0 | -73.30 |
| ROCHESTER | 361.2 | -138.5 |
| REYNALES | 378.0 | -155.3 |
| THOROLD | 379.8 | -157.1 |
| GRIMSBY | 383.7 | -161.0 |
| CABOT HEAD | 390.8 | -168.1 |
| MANITOULIN | 407.2 | -184.5 |
| QUEENSTON | 417.9 | -195.2 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:NORFOLK TWP:CHARLOTTEVILLE BLOCK: TRACT:4 LOT:4 CON:IV

WELL NAME:BAYVIEW # 7 CHARLOTTEVILLE 4-4-IV PERMIT NO.:6119 INITIAL CLASS:DEV
OPERATOR :BAYVIEW EXPLORATIONS LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :CABLE DEPTHS.....
CABLE TOP:1.0 KB ELEV:228.5
BOT:421.5 LOG :
ROTRY TOP: DRILLER:421.5
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830215
START :19830208
COMPTD:19830407
OFFCNF:19830507
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:556.6
EAST :
WEST :109.7
LAT :42 43 34
LONG :80 25 46

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL :

**SAMPLES**

SAMPLE INTERVAL:78.0 - 421.5 NO. BOTTLES:169
TRAY NUMBERS :2055
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 385.0 | 387.4 | .06 | | N |
| 388.3 | 388.9 | .61 | 4137 | N |
| 388.9 | 389.5 | 1.78 | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 140.2 | | 12.2 | SUL | N | |
| 303.6 | | 11.6 | BRA | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 78.6 | SHO | | 78.6 |
| 219 | 41.7 | 87.8 | BAR | | 0 |
| 114 | 18.7 | 381.3 | CEM | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.0 | 227.50 |
| AMHERSTBURG | 115.8 | 112.70 |
| BOIS BLANC | 131.7 | 96.80 |
| BASS ISLANDS | 171.9 | 56.60 |
| G SHALE | 190.2 | 38.30 |
| F SHALE | 196.6 | 31.90 |
| E CARBONATE | 220.3 | 8.20 |
| C SHALE | 257.3 | -28.80 |
| B ANHYDRITE | 273.0 | -44.50 |
| A2 CARBONATE | 280.1 | -51.60 |
| A2 ANHYDRITE | 285.3 | -56.80 |
| A1 CARBONATE | 288.0 | -59.50 |
| GUELPH | 289.9 | -61.40 |
| ROCHESTER | 361.5 | -133.0 |
| IRONDEQUOIT | 381.3 | -152.8 |
| THOROLD | 385.0 | -156.5 |
| GRIMSBY | 391.5 | -163.0 |
| CABOT HEAD | 395.9 | -167.4 |
| MANITOULIN | 414.6 | -186.1 |
| QUEENSTON | 419.1 | -190.6 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:NORFOLK TWP:HOUGHTON BLOCK: TRACT:2 LOT:10 CON:ENR

WELL NAME:HOUGHTON EXP. 1 HOUGHTON 2-10-ENR PERMIT NO.:6370 INITIAL CLASS:NPW
OPERATOR :HOUGHTON EXPLORATIONS TARGET SYS:CLI CURRENT STAT.:GP-OS

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:1.3 KB ELEV:207.0
BOT:425.2 LOG :416.1
ROTRY TOP: DRILLER:414.5
BOT: DEEPEND:
DRLG FLD :FORM.WATER PLUGBK :

**DATES**

PERMIT:19831017
START :19831012
COMPTD:19831110
OFFCNF:19841110
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:144.6
EAST :
WEST :115.3
LAT :42 40 37
LONG :80 41 30

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
EPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:85.6 - 425.2 NO. BOTTLES:181
TRAY NUMBERS :5537
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 125.0 | | | | N |
| 417.6 | 418.5 | 2.2 | | N |
| 418.5 | 419.7 | 2.5 | | N |
| 419.7 | 420.0 | 2.5 | | N |
| 420.0 | 421.0 | 2.4 | 4792 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|
| 125.0 | | SHOW | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 87.5 | | 18.3 | SUL | N | |
| 122.0 | | 12.2 | SUL | N | |
| 157.9 | | 12.2 | SUL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 273 | | 85.6 | SHO | | 85.6 |
| 219 | | 88.0 | BAR | | |
| 114 | 414.5 | | BHP | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 1.5 | 413.9 | GRNL | COMPUTALOG |
| 290.8 | 415.7 | DENL | COMPUTALOG |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DUNDEE | 85.3 | 121.70 |
| LUCAS | 114.0 | 93.00 |
| AMHERSTBURG | 125.6 | 81.40 |
| BOIS BLANC | 143.0 | 64.00 |
| BASS ISLANDS | 185.0 | 22.00 |
| G SHALE | 205.4 | 1.60 |
| F SHALE | 213.5 | -6.50 |
| E CARBONATE | 242.9 | -35.90 |
| C SHALE | 271.6 | -64.60 |
| B MARKER | 290.5 | -83.50 |
| B ANHYDRITE | 299.0 | -92.00 |
| A2 CARBONATE | 303.0 | -96.00 |
| A2 ANHYDRITE | 316.1 | -109.1 |
| A1 CARBONATE | 317.6 | -110.6 |
| GUELPH | 320.6 | -113.6 |
| ROCHESTER | 397.3 | -190.3 |
| REYNALES | 413.5 | -206.5 |
| THOROLD | 417.6 | -210.6 |
| GRIMSBY | 420.0 | -213.0 |
| CABOT HEAD | 422.1 | -215.1 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:NORFOLK TWP:LAKE ERIE BLOCK:122 TRACT:S LOT: CON:

WELL NAME:CONSUMERS 13820 L.ERIE 122-S PERMIT NO.:6154 INITIAL CLASS:DEV
OPERATOR :CONSUMERS GAS CO. LTD. TARGET SYS:CLI CURRENT STAT.:GS-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT
CABLE TOP:
BOT:
ROTRY TOP:27.1
BOT:534.0
DRLG FLD :

DEPTHS.....
KB ELEV:181.1
LOG :534.0
DRILLER:534.0
DEEPEND:
PLUGBK :

**DATES**

PERMIT:19830325
START :19830624
COMPTD:19830627
OFFCNF:19830727
WRKOVR:
ABNDND:19830628

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 26 36
LONG :80 41 40

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:104.0 - 534.0 NO. BOTTLES:139
TRAY NUMBERS :2088
MISSNG INTERVAL:108.0-120.0

**GENERAL COMMENTS**

GEOLOGY BY:J. LAU

**INITIAL GAS RECORD**

| PRODN TOP | INTRVL BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 481.0 | 488.2 | 0.719 | 4967 | N |

**INITIAL OIL RECORD**

| PRODN TOP | INTRVL BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN TOP | INTRVL BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 27.1 | HAN | | 27.1 |
| 244 | 53.6 | 104.9 | CEM | 167 | 0 |
| 178 | 29.8 | 217.1 | CEM | 144 | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 28.0 | 576.0 | CNFD | SCHLUMBERGER |
| 223.0 | 584.0 | DLLM | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.4 | 174.70 |
| DRIFT | 27.1 | 154.00 |
| HAMILTON | 123.2 | 57.90 |
| DUNDEE | 148.8 | 32.30 |
| AMHERSTBURG | 189.0 | -7.90 |
| BOIS BLANC | 212.0 | -30.90 |
| ORISKANY | 225.6 | -44.50 |
| BASS ISLANDS | 244.7 | -63.60 |
| G SHALE | 276.8 | -95.70 |
| F SHALE | 284.2 | -103.1 |
| E CARBONATE | 307.5 | -126.4 |
| C SHALE | 346.3 | -165.2 |
| B MARKER | 354.3 | -173.2 |
| B ANHYDRITE | 368.6 | -187.5 |
| A2 CARBONATE | 373.4 | -192.3 |
| A2 ANHYDRITE | 386.8 | -205.7 |
| A1 CARBONATE | 388.4 | -207.3 |
| GUELPH | 391.5 | -210.4 |
| DECEW | 454.5 | -273.4 |
| ROCHESTER | 466.4 | -285.3 |
| REYNALES | 478.4 | -297.3 |
| THOROLD | 482.0 | -300.9 |
| GRIMSBY | 483.9 | -302.8 |
| CABOT HEAD | 498.4 | -317.3 |
| MANITOULIN | 519.6 | -338.5 |
| WHIRLPOOL | 523.5 | -342.4 |
| QUEENSTON | 524.9 | -343.8 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 481.0 | | REYNALES-GRIMSBY |

COUNTY:NORFOLK TWP:LAKE ERIE BLOCK:126 TRACT:A LOT: CON:

WELL NAME:CONSUMERS 13825 L.ERIE 126-A
OPERATOR :THE CONSUMERS GAS CO. LTD.

PERMIT NO.:6172 INITIAL CLASS:DEV
TARGET SYS:CLI CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.2
BOT: LOG :510.0
ROTRY TOP:23.4 DRILLER:510.0
BOT:510.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :

**DATES**

PERMIT:19830329
START :19830813
COMPTD:19830815
OFFCNF:19830915
WRKOVR:
ABNDND:19830815

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 29 36
LONG :80 20 46

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:144.0 - 510.0 NO. BOTTLES:120
TRAY NUMBERS :6930
MISSNG INTERVAL:228.0-231.0, 267.0-270.0

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 470.0 | 480.0 | | 3905 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 23.4 | HAN | | 23.4 |
| 244 | 53.6 | 145.4 | CEM | 260 | 0.0 |
| 178 | 29.8 | 208.3 | CEM | 143 | 0.0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 25.0 | 509.0 | CNFD | SCHLUMBERGER |
| 225.0 | 509.0 | LATL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.5 | 174.70 |
| DRIFT | 23.4 | 157.80 |
| DUNDEE | 145.0 | 36.20 |
| LUCAS | 160.0 | 21.20 |
| AMHERSTBURG | 171.0 | 10.20 |
| BOIS BLANC | 192.0 | -10.80 |
| ORISKANY | 207.0 | -25.80 |
| BASS ISLANDS | 212.4 | -31.20 |
| G SHALE | 244.1 | -62.90 |
| F SHALE | 251.8 | -70.60 |
| E CARBONATE | 274.6 | -93.40 |
| C SHALE | 312.0 | -130.8 |
| B MARKER | 325.5 | -144.3 |
| B ANHYDRITE | 332.5 | -151.3 |
| A2 CARBONATE | 337.8 | -156.6 |
| A2 ANHYDRITE | 347.5 | -166.3 |
| A1 CARBONATE | 348.8 | -167.4 |
| GUELPH | 351.6 | -170.4 |
| GOAT ISLAND | 375.0 | -193.8 |
| GASPORT | 398.0 | -216.8 |
| DECEW | 421.5 | -240.3 |
| ROCHESTER | 442.2 | -261.0 |
| REYNALES | 455.7 | -274.5 |
| THOROLD | 459.7 | -278.5 |
| GRIMSBY | 463.0 | -281.8 |
| CABOT HEAD | 477.8 | -296.6 |
| MANITOULIN | 496.5 | -315.3 |
| QUEENSTON | 503.3 | -322.1 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:NORFOLK TWP:LAKE ERIE BLOCK:152 TRACT:E LOT: CON:

WELL NAME:CONSUMERS 13787 L.ERIE 152-E PERMIT NO.:6155 INITIAL CLASS:DEV
OPERATOR .THE CONSUMERS GAS COMPANY LTD. TARGET SYS:CLI CURRENT STAT.:GS

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.1
BOT: LOG :561.5
ROTRY TOP:27.0 DRILLER:561.0
BOT:561.5 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :

**DATES**

PERMIT:19830325
START :19830806
COMPTD:19830808
OFFCNF:19830908
WRKOVR:
ABNDND:19830809

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 24 53
LONG :80 29 37

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS:1.55 103m3/d PRESSURE:5114 kPa
OIL: m3/d
PRODUCING FORMATION:THOROLD GRIMSBY
PRODUCING INTERVAL :505.0 - 514.0

**SAMPLES**

SAMPLE INTERVAL:132.0 - 561.0 NO. BOTTLES:142
TRAY NUMBERS :6927
MISSNG INTERVAL:510.0-513.0

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN TOP | INTRVL BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 505.0 | 514.0 | 1.55 | 5114 | N |

**INITIAL OIL RECORD**

| PRODN TOP | INTRVL BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN TOP | INTRVL BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 27.0 | HAN | | 27.0 |
| 244 | 53.6 | 130.7 | CEM | 224 | 0.0 |
| 178 | 29.8 | 221.7 | CEM | 150 | 0.0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 25.0 | 561.5 | CNFD | SCHLUMBERGER |
| 235.0 | 561.5 | LATL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.4 | 174.70 |
| DRIFT | 27.0 | 154.10 |
| HAMILTON | 125.8 | 55.30 |
| DUNDEE | 184.1 | -3.00 |
| LUCAS | 201.4 | -20.30 |
| AMHERSTBURG | 217.8 | -36.70 |
| BOIS BLANC | 239.2 | -58.10 |
| BASS ISLANDS | 257.2 | -76.10 |
| G SHALE | 286.4 | -105.3 |
| F SHALE | 295.3 | -114.2 |
| E CARBONATE | 316.5 | -135.4 |
| C SHALE | 354.5 | -173.4 |
| B MARKER | 369.0 | -187.9 |
| B ANHYDRITE | 376.3 | -195.2 |
| A2 CARBONATE | 381.7 | -200.6 |
| A2 ANHYDRITE | 392.0 | -210.9 |
| A1 CARBONATE | 393.0 | -211.9 |
| GUELPH | 396.0 | -214.9 |
| DECEW | 467.7 | -286.6 |
| ROCHESTER | 489.0 | -307.9 |
| REYNALES | 502.6 | -321.5 |
| THOROLD | 506.2 | -325.1 |
| GRIMSBY | 508.8 | -327.7 |
| CABOT HEAD | 522.0 | -340.9 |
| MANITOULIN | 544.4 | -363.3 |
| WHIRLPOOL | 550.9 | -369.8 |
| QUEENSTON | 551.5 | -370.4 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:NORFOLK TWP:LAKE ERIE BLOCK:187 TRACT: LOT:A CON:

WELL NAME:CONSUMERS 13817 L.ERIE 187-A PERMIT NO.:6160 INITIAL CLASS:DEV
OPERATOR :CONSUMERS GAS CO. LTD. TARGET SYS:CLI CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.1
BOT: LOG :611.0
ROTRY TOP:28.0 DRILLER:611.0
BOT:611.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :

**DATES**

PERMIT:19830325
START :19830617
COMPTD:19830619
OFFCNF:19830719
WRKOVR:
ABNDND:19830620

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 19 23
LONG :80 40 37

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:102.0 - 611.0 NO. BOTTLES:169
TRAY NUMBERS :2142
MISSNG INTERVAL:333.0-336.0 , 378.0-379.0

**GENERAL COMMENTS**

GEOLOGY BY:MARK G. MCMURRAY

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 28.0 | HAN | | 28.0 |
| 244 | 54.0 | 99.2 | CEM | 157 | 0 |
| 178 | 29.8 | 236.8 | CEM | 155 | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 23.0 | 612.0 | CNFD | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. | BOXES | ANAL |
|---|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.4 | 174.70 |
| DRIFT | 28.0 | 153.10 |
| KETTLE POINT | 98.7 | 82.40 |
| HAMILTON | 166.0 | 15.10 |
| DUNDEE | 219.0 | -37.90 |
| LUCAS | 250.5 | -69.40 |
| BOIS BLANC | 267.0 | -85.90 |
| BASS ISLANDS | 291.4 | -110.3 |
| G SHALE | 331.6 | -150.5 |
| F SHALE | 339.5 | -158.4 |
| E CARBONATE | 363.7 | -182.6 |
| C SHALE | 400.5 | -219.4 |
| B MARKER | 409.3 | -228.2 |
| B ANHYDRITE | 422.8 | -241.7 |
| A2 CARBONATE | 428.2 | -247.1 |
| A1 CARBONATE | 439.7 | -258.6 |
| GUELPH | 443.8 | -262.7 |
| DECEW | 516.0 | -334.9 |
| ROCHESTER | 538.6 | -357.5 |
| REYNALES | 551.6 | -370.5 |
| THOROLD | 555.6 | -374.5 |
| GRIMSBY | 560.3 | -379.2 |
| CABOT HEAD | 571.3 | -390.2 |
| MANITOULIN | 593.5 | -412.4 |
| WHIRLPOOL | 597.3 | -416.2 |
| QUEENSTON | 601.2 | -420.1 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:NORFOLK TWP:L.ERIE BLOCK:123 TRACT:Q LOT: CON:

WELL NAME:CONSUMERS 13826 L.ERIE 123-Q PERMIT NO.:6164 INITIAL CLASS:DEV
OPERATOR :CONSUMERS GAS CO. LTD. TARGET SYS:CLI CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.1
BOT: LOG :542.0
ROTRY TOP:26.5 DRILLER:542.0
BOT:542.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :

**DATES**

PERMIT:19830329
START :19830629
COMPTD:19830701
OFFCNF:19830801
WRKOVR:
ABNDND:19830702

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 26 22
LONG :80 38 08

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:40.0 - 624.0 NO. BOTTLES:140
TRAY NUMBERS :1998
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| TOP | PRODN INTRVL BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 26.5 | HAN | | 26.5 |
| 244 | 53.6 | 124.1 | CEM | 210 | 0 |
| 178 | 29.8 | 222.4 | CEM | 150 | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 27.0 | 535.4 | CNFD | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.4 | 174.70 |
| DRIFT | 26.5 | 154.60 |
| HAMILTON | 123.8 | 57.30 |
| DUNDEE | 159.8 | 21.30 |
| LUCAS | 182.9 | -1.80 |
| AMHERSTBURG | 202.6 | -21.50 |
| BOIS BLANC | 226.6 | -45.50 |
| ORISKANY | 236.3 | -55.20 |
| BASS ISLANDS | 241.4 | -60.30 |
| G SHALE | 278.0 | -96.90 |
| F SHALE | 286.0 | -104.9 |
| E CARBONATE | 313.0 | -131.9 |
| C SHALE | 348.4 | -167.3 |
| B MARKER | 363.0 | -181.9 |
| B ANHYDRITE | 371.7 | -190.6 |
| A2 CARBONATE | 377.5 | -196.4 |
| A2 ANHYDRITE | 388.7 | -207.6 |
| A1 CARBONATE | 390.1 | -209.0 |
| GUELPH | 392.8 | -211.7 |
| DECEW | 451.8 | -270.7 |
| ROCHESTER | 474.8 | -293.7 |
| REYNALES | 488.4 | -307.3 |
| THOROLD | 492.7 | -311.6 |
| GRIMSBY | 494.9 | -313.8 |
| CABOT HEAD | 506.5 | -325.4 |
| MANITOULIN | 526.6 | -345.5 |
| WHIRLPOOL | 530.8 | -349.7 |
| QUEENSTON | 531.6 | -350.5 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:NORFOLK TWP:L.ERIE BLOCK:123 TRACT:U LOT: CON:

WELL NAME:CONSUMERS 13844 L.ERIE 123-U PERMIT NO.:6334 INITIAL CLASS:DEV
OPERATOR :THE CONSUMERS GAS CO. LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.1
BOT: LOG :547.5
ROTRY TOP:26.6 DRILLER:548.0
BOT:548.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :534.0

**DATES**

PERMIT:19830830
START :19830903
COMPTD:19830904
OFFCNF:19831004
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 25 10
LONG :80 35 03

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS:1.9 103m3/d PRESSURE:5084 kPa
OIL: m3/d
PRODUCING FORMATION:GRIMSBY

PRODUCING INTERVAL :494.9 - 496.4

**SAMPLES**

SAMPLE INTERVAL:132.0 - 548.0 NO. BOTTLES:132
TRAY NUMBERS :2091
MISSNG INTERVAL:258.0-261.0 , 267.0-270.0 ,
282.0-285.0 , 291.0-294.0 ,
333.0-336.0 , 363.0-366.0

**GENERAL COMMENTS**

GEOLOGY BY:G.M. CARD

**INITIAL GAS RECORD**

| TOP | BOT | PRODN INTRVL FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 492.0 | 497.5 | 1.9 | 5084 | N |

**INITIAL OIL RECORD**

| TOP | BOT | PRODN INTRVL FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| TOP | BOT | PRODN INTRVL STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 26.6 | HAN | | 26.6 |
| 244 | 53.6 | 125.0 | CEM | 212 | 0.0 |
| 178 | 29.8 | 220.8 | CEM | 150 | 0.0 |
| 114 | 14.4 | 489.96 | CEM | 255 | 0.0 |
| 60 | 7.0 | 544.4 | HAN | | 0.0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 25.0 | 546.5 | CNFD | SCHLUMBERGER |
| 235.0 | 546.5 | LATL | SCHLUMBERGER |
| 534.0 | 547.5 | CMPL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.4 | 174.70 |
| DRIFT | 26.6 | 154.50 |
| HAMILTON | 124.7 | 56.40 |
| DUNDEE | 169.0 | 12.10 |
| LUCAS | 185.1 | -4.00 |
| AMHERSTBURG | 201.0 | -19.90 |
| BOIS BLANC | 222.0 | -40.90 |
| BASS ISLANDS | 234.0 | -52.90 |
| G SHALE | 267.9 | -86.80 |
| F SHALE | 275.8 | -94.70 |
| E CARBONATE | 303.0 | -121.9 |
| C SHALE | 336.3 | -155.2 |
| B MARKER | 346.0 | -164.9 |
| B ANHYDRITE | 359.1 | -178.0 |
| A2 CARBONATE | 364.1 | -183.0 |
| A2 ANHYDRITE | 374.6 | -193.5 |
| A1 CARBONATE | 375.5 | -194.4 |
| GUELPH | 378.0 | -196.9 |
| GOAT ISLAND | 401.0 | -219.9 |
| GASPORT | 429.0 | -247.9 |
| DECEW | 456.7 | -275.6 |
| ROCHESTER | 480.0 | -298.9 |
| REYNALES | 490.2 | -309.1 |
| THOROLD | 493.6 | -312.5 |
| GRIMSBY | 494.8 | -313.7 |
| CABOT HEAD | 504.0 | -322.9 |
| MANITOULIN | 525.0 | -343.9 |
| QUEENSTON | 535.1 | -354.0 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 492.0 | | THOROLD GRIMSBY |

COUNTY:NORFOLK TWP:L.ERIE BLOCK:123 TRACT:W LOT: CON:

WELL NAME:CONSUMERS 13821 L.ERIE 123-W PERMIT NO.:6162 INITIAL CLASS:DEV
OPERATOR :CONSUMERS GAS CO. LTD TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.1
BOT: LOG :560.0
ROTRY TOP:27.1 DRILLER:560.0
BOT:560.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :387.2

**DATES**

PERMIT:19830329
START :19830731
COMPTD:19830802
OFFCNF:19830902
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 25 10
LONG :80 37 48

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS:5.636 103m3/d PRESSURE:4189 kPa
OIL: m3/d
PRODUCING FORMATION:A2 CARBONATE

PRODUCING INTERVAL :368.0 - 382.0

**SAMPLES**

SAMPLE INTERVAL:133.0 - 558.0 NO. BOTTLES:137
TRAY NUMBERS :2004
MISSNG INTERVAL:300.0-303.0 , 483.0-486.0 , 489.0-492.0 , 552.0-555.0

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 368.0 | 382.0 | 5.64 | 4189 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 27.1 | HAN | | 27.1 |
| 244 | 53.6 | 133.3 | CEM | 227 | 0 |
| 178 | 29.8 | 222.7 | CEM | 150 | 0 |
| 114 | 14.4 | 396.2 | CEM | 186 | 0 |
| 60 | 7.0 | 369.3 | HAN | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 25.0 | 559.0 | CNFD | SCHLUMBERGER |
| 232.0 | 559.0 | LATL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.4 | 174.70 |
| DRIFT | 27.1 | 154.00 |
| HAMILTON | 133.0 | 48.10 |
| DUNDEE | 167.5 | 13.60 |
| LUCAS | 191.0 | -9.90 |
| AMHERSTBURG | 207.5 | -26.40 |
| BOIS BLANC | 222.0 | -40.90 |
| BASS ISLANDS | 236.8 | -55.70 |
| G SHALE | 265.9 | -84.80 |
| F SHALE | 273.2 | -92.10 |
| E CARBONATE | 296.2 | -115.1 |
| C SHALE | 331.8 | -150.7 |
| B MARKER | 343.0 | -161.9 |
| B ANHYDRITE | 355.7 | -174.6 |
| A2 CARBONATE | 360.7 | -179.6 |
| A2 ANHYDRITE | 371.0 | -189.9 |
| A1 CARBONATE | 373.0 | -191.9 |
| GUELPH | 375.0 | -193.9 |
| DECEW | 467.4 | -286.3 |
| ROCHESTER | 489.0 | -307.9 |
| REYNALES | 501.7 | -320.6 |
| THOROLD | 505.7 | -324.6 |
| GRIMSBY | 509.1 | -328.0 |
| CABOT HEAD | 522.0 | -340.9 |
| MANITOULIN | 543.4 | -362.3 |
| QUEENSTON | 548.6 | -367.5 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 368.0 | | GUELPH |

COUNTY:NORFOLK TWP:L.ERIE BLOCK:124 TRACT:B LOT: CON:

WELL NAME:CONSUMERS 13823 L.ERIE 124-B PERMIT NO.:6163 INITIAL CLASS:DEV
OPERATOR :CONSUMERS GAS CO. LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.1
BOT: LOG :515.5
ROTRY TOP:24.2 DRILLER:517.0
BOT:517.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :507.0

**DATES**

PERMIT:19830329
START :19830725
COMPTD:19830729
OFFCNF:19830829
WRKOVR:19840626
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 29 14
LONG :80 31 20

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:Y
BPT RPTS:N

**COMPLETION DATA**

GAS:23.05 103m3/d PRESSURE:5195.0 kPa
OIL: m3/d
PRODUCING FORMATION:THOROLD-GRIMSBY
PRODUCING INTERVAL :466.0 - 473.0

**SAMPLES**

SAMPLE INTERVAL:129.0 - 517.0 NO. BOTTLES:130
TRAY NUMBERS :2073
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN TOP | INTRVL BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 336.0 | 353.0 | 35.85 | 4413 | N |
| 464.0 | 475.0 | 23.05 | 5195 | N |

**INITIAL OIL RECORD**

| PRODN TOP | INTRVL BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN TOP | INTRVL BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 24.2 | HAN | | 24.2 |
| 244 | 53.6 | 139.3 | CEM | 226 | 0 |
| 178 | 29.8 | 201.3 | CEM | 136 | 0 |
| 114 | 14.4 | 512.2 | CEM | 235 | 0 |
| 80 | 7.0 | 460.8 | HAN | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 225.0 | 515.0 | LATL | SCHLUMBERGER |
| 26.0 | 515.0 | CNFD | SCHLUMBERGER |
| 423.0 | 515.0 | CMPL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.4 | 174.70 |
| DRIFT | 24.2 | 156.90 |
| DUNDEE | 130.1 | 51.00 |
| LUCAS | 150.5 | 30.60 |
| AMHERSTBURG | 173.8 | 7.30 |
| BOIS BLANC | 191.7 | -10.60 |
| ORISKANY | 201.0 | -19.90 |
| BASS ISLANDS | 204.0 | -22.90 |
| G SHALE | 236.0 | -54.90 |
| F SHALE | 242.8 | -61.70 |
| E CARBONATE | 265.8 | -84.70 |
| C SHALE | 297.0 | -115.9 |
| B MARKER | 316.0 | -134.9 |
| B ANHYDRITE | 323.7 | -142.6 |
| A2 CARBONATE | 330.0 | -148.9 |
| A2 ANHYDRITE | 335.7 | -154.6 |
| GUELPH | 336.0 | -154.9 |
| DECEW | 426.6 | -245.5 |
| ROCHESTER | 448.9 | -267.8 |
| REYNALES | 462.2 | -281.1 |
| THOROLD | 465.8 | -284.7 |
| GRIMSBY | 468.0 | -286.9 |
| CABOT HEAD | 483.0 | -301.9 |
| MANITOULIN | 504.6 | -323.5 |
| QUEENSTON | 509.5 | -328.4 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 336.0 | | GUELPH |
| 464.0 | | REYNALES-GRIMSBY |

COUNTY:NORFOLK TWP:L.ERIE BLOCK:124 TRACT:D LOT: CON:

WELL NAME:CONSUMERS 13832 L.ERIE 124-D PERMIT NO.:6229 INITIAL CLASS:DEV
OPERATOR :CONSUMERS GAS CO. LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.1
BOT: LOG :516.0
ROTRY TOP:24.9 DRILLER:515.0
BOT:516.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :503.0

**DATES**

PERMIT:19830429
START :19830702
COMPTD:19830704
OFFCNF:19830804
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 29 18
LONG :80 33 60

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS:2.07 103m3/d PRESSURE:4995 kPa
OIL: m3/d
PRODUCING FORMATION:THOROLD-GRIMSBY
PRODUCING INTERVAL :462.9 - 475.0

**SAMPLES**

SAMPLE INTERVAL:131.0 - 516.0 NO. BOTTLES:129
TRAY NUMBERS :5704
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:JAMES LAU**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 461.0 | 476.5 | 2.07 | 4995 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 24.9 | HAN | | 24.9 |
| 244 | 53.6 | 131.6 | CEM | 229 | 0 |
| 178 | 29.8 | 224.1 | CEM | 152 | 0 |
| 114 | 14.4 | 511.5 | CEM | 223 | 0 |
| 60 | 7.0 | 458.9 | HAN | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 26.0 | 509.0 | CNFD | SCHLUMBERGER |
| 230.5 | 512.0 | DLLM | SCHLUMBERGER |
| 423.5 | 492.0 | CMPL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.4 | 174.70 |
| DRIFT | 24.9 | 156.20 |
| DUNDEE | 137.3 | 43.80 |
| LUCAS | 160.2 | 20.90 |
| AMHERSTBURG | 177.0 | 4.10 |
| BOIS BLANC | 194.6 | -13.50 |
| ORISKANY | 211.0 | -29.90 |
| BASS ISLANDS | 221.3 | -40.20 |
| G SHALE | 253.5 | -72.40 |
| F SHALE | 260.6 | -79.50 |
| E CARBONATE | 286.5 | -105.4 |
| C SHALE | 319.5 | -138.4 |
| B MARKER | 331.4 | -150.3 |
| B ANHYDRITE | 346.3 | -165.2 |
| A2 CARBONATE | 353.8 | -172.7 |
| A1 CARBONATE | 361.0 | -179.9 |
| GUELPH | 369.3 | -188.2 |
| DECEW | 423.6 | -242.5 |
| ROCHESTER | 446.6 | -265.5 |
| REYNALES | 458.8 | -277.7 |
| THOROLD | 462.0 | -280.9 |
| GRIMSBY | 464.5 | -283.4 |
| CABOT HEAD | 479.3 | -298.2 |
| MANITOULIN | 501.0 | -319.9 |
| WHIRLPOOL | 505.1 | -324.0 |
| QUEENSTON | 507.1 | -326.0 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 461.0 | | REYNALES-GRIMSBY |

COUNTY:NORFOLK TWP:L.ERIE BLOCK:124 TRACT:J LOT: CON:

WELL NAME:CONSUMERS 13843 L.ERIE 124-J PERMIT NO.:6333 INITIAL CLASS:DEV
OPERATOR :THE CONSUMERS GAS CO. LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.1
BOT: LOG :525.0
ROTRY TOP:25.0 DRILLER:525.5
BOT:525.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :

**DATES**

PERMIT:19830830
START :19830828
COMPTD:19830901
OFFCNF:19831001
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 28 44
LONG :80 30 45

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS:17.76 103m3/d PRESSURE:4291 kPa
OIL: m3/d
PRODUCING FORMATION:GUELPH
PRODUCING INTERVAL :346.0 - 354.0

**SAMPLES**

SAMPLE INTERVAL:134.0 - 523.0 NO. BOTTLES:123
TRAY NUMBERS :5476
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 335.0 | 353.0 | 17.8 | 4291 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 25.0 | HAN | | 0.0 |
| 244 | 53.6 | 134.2 | CEM | 234 | 0.0 |
| 178 | 29.8 | 222.9 | CEM | 152 | 0.0 |
| 114 | 14.4 | 339.8 | CEM | 180 | 0.0 |
| 60 | 7.0 | 383.3 | HAN | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 25.0 | 524.0 | CNFD | SCHLUMBERGER |
| 317.0 | 373.0 | CMPL | SCHLUMBERGER |
| 240.0 | 524.0 | LATL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.4 | 174.70 |
| DRIFT | 25.0 | 156.10 |
| DUNDEE | 132.4 | 48.70 |
| LUCAS | 151.8 | 29.30 |
| AMHERSTBURG | 170.0 | 11.10 |
| BOIS BLANC | 189.0 | -7.90 |
| ORISKANY | 206.0 | -24.90 |
| BASS ISLANDS | 207.0 | -25.90 |
| G SHALE | 238.0 | -56.90 |
| F SHALE | 244.2 | -63.10 |
| E CARBONATE | 266.3 | -85.20 |
| C SHALE | 302.9 | -121.8 |
| B MARKER | 318.0 | -136.9 |
| B ANHYDRITE | 325.0 | -143.9 |
| A2 CARBONATE | 332.2 | -151.1 |
| A2 ANHYDRITE | 338.6 | -157.5 |
| A1 CARBONATE | 340.0 | -158.9 |
| GUELPH | 343.3 | -162.2 |
| DECEW | 433.4 | -252.3 |
| ROCHESTER | 455.4 | -274.3 |
| REYNALES | 468.4 | -287.3 |
| THOROLD | 472.3 | -291.2 |
| GRIMSBY | 475.0 | -293.9 |
| CABOT HEAD | 489.0 | -307.9 |
| MANITOULIN | 510.0 | -328.9 |
| WHIRLPOOL | 514.6 | -333.5 |
| QUEENSTON | 515.3 | -334.2 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:NORFOLK TWP:L.ERIE BLOCK:125 TRACT:J LOT: CON:

WELL NAME:CONSUMERS 13824 L.ERIE 125-J PERMIT NO.:6173 INITIAL CLASS:DEV
OPERATOR :CONSUMERS GAS CO. LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.1
BOT: LOG :519.5
ROTRY TOP:24.7 DRILLER:519.0
BOT:519.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :

**DATES**

PERMIT:19830329
START :19830808
COMPTD:19830811
OFFCNF:19830911
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 28 49
LONG :80 25 13

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS:3.801 103m3/d PRESSURE:5064 kPa
OIL: m3/d
PRODUCING FORMATION:THOROLD-GRIMSBY
PRODUCING INTERVAL :470.5 - 473.6

**SAMPLES**

SAMPLE INTERVAL:150.0 - 518.0 NO. BOTTLES:122
TRAY NUMBERS :6917
MISSNG INTERVAL:219.0-221.0

**GENERAL COMMENTS**

GUELPH RESEMBLES WHITE QTZ. SAND

GEOLOGY BY:G.M. CARD

**INITIAL GAS RECORD**

471.6 -290.5
468.0 480.0 3.8 5064 N

**INITIAL OIL RECORD**

| PRODN TOP | INTRVL BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN TOP | INTRVL BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| | | | | | |
|---|---|---|---|---|---|
| 273 | 75.9 | 24.7 | HAN | | 24.7 |
| 244 | 53.6 | 149.9 | CEM | 266 | 0 |
| 178 | 29.8 | 218.6 | CEM | 150 | 0 |
| 114 | 14.4 | 511.4 | CEM | 238 | 0 |
| 60 | 7.0 | 468.1 | HAN | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 230.0 | 519.5 | LATL | SCHLUMBERGER |
| 25.0 | 519.5 | CNFD | SCHLUMBERGER |
| 501.5 | 519.5 | CMPL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | | ....DEPTH.... TOP | ELEV |
|---|---|---|---|
| LAKE LEVEL | | 6.4 | 174.70 |
| DRIFT | | 24.7 | 156.40 |
| HAMILTON | | 138.8 | 42.30 |
| DUNDEE | | 149.5 | 31.60 |
| LUCAS | | 165.0 | 16.10 |
| AMHERSTBURG | | 180.0 | 1.10 |
| BOIS BLANC | | 194.0 | -12.90 |
| BASS ISLANDS | | 211.6 | -30.50 |
| G SHALE | | 233.0 | -51.90 |
| F SHALE | | 244.2 | -63.10 |
| E CARBONATE | | 267.3 | -86.20 |
| C SHALE | | 304.5 | -123.4 |
| B MARKER | | 322.2 | -141.1 |
| B ANHYDRITE | | 335.4 | -154.3 |
| A2 CARBONATE | | 340.4 | -159.3 |
| A2 ANHYDRITE | | 343.7 | -162.6 |
| A1 CARBONATE | | 344.6 | -163.5 |
| A1 ANHYDRITE | | 349.6 | -168.5 |
| GUELPH | | 351.4 | -170.3 |
| DECEW | | 431.0 | -249.9 |
| ROCHESTER | | 452.4 | -271.3 |
| REYNALES | Y | | |
| CABOT HEAL | | 491.0 | -309.9 |
| MANITOULIN | | 507.0 | -325.9 |
| WHIRLPOOL | | 512.4 | -331.3 |
| QUEENSTON | | 514.5 | -333.4 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 468.0 | | THOROLD-GRIMSBY |

COUNTY:NORFOLK TWP:L.ERIE BLOCK:126 TRACT:Q LOT: CON:

WELL NAME:CONSUMERS 13836 L.ERIE 126-Q PERMIT NO.:6171 INITIAL CLASS:DEV
OPERATOR :THE CONSUMERS GAS COMPANY LTD. TARGET SYS:CLI CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.1
BOT: LOG :546.5
ROTRY TOP:20.3 DRILLER:546.0
BOT:545.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :

**DATES**

PERMIT:19830329
START :19830818
COMPTD:19830821
OFFCNF:19830921
WRKOVR:
ABNDND:19830821

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 26 28
LONG :80 23 29

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:120.0 - 546.0 NO. BOTTLES:142
TRAY NUMBERS :2154
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 490.0 | 496.5 | | 3407 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 20.3 | HAN | | 20.3 |
| 244 | 53.6 | 122.9 | CEM | 221 | 0.0 |
| 178 | 29.8 | 210.2 | CEM | 144 | 0.0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 220.0 | 545.0 | LATL | SCHLUMBERGER |
| 220.0 | 545.0 | MSFL | SCHLUMBERGER |
| 25.0 | 545.0 | CNFD | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.4 | 174.70 |
| DRIFT | 20.3 | 160.80 |
| HAMILTON | 122.2 | 58.90 |
| DUNDEE | 174.8 | 6.30 |
| LUCAS | 195.5 | -14.40 |
| AMHERSTBURG | 206.0 | -24.90 |
| BOIS BLANC | 230.5 | -49.40 |
| BASS ISLANDS | 242.2 | -61.10 |
| G SHALE | 275.7 | -94.60 |
| F SHALE | 283.0 | -101.9 |
| E CARBONATE | 305.0 | -123.9 |
| C SHALE | 341.4 | -160.3 |
| B MARKER | 349.7 | -168.6 |
| B ANHYDRITE | 364.5 | -183.4 |
| A2 CARBONATE | 368.5 | -187.4 |
| A2 ANHYDRITE | 378.2 | -197.1 |
| A1 CARBONATE | 379.3 | -198.2 |
| GUELPH | 383.0 | -201.9 |
| GOAT ISLAND | 400.0 | -218.9 |
| GASPORT | 440.0 | -258.9 |
| DECEW | 454.3 | -273.2 |
| ROCHESTER | 475.0 | -293.9 |
| REYNALES | 488.4 | -307.3 |
| THOROLD | 492.4 | -311.3 |
| GRIMSBY | 496.4 | -315.3 |
| CABOT HEAD | 509.0 | -327.9 |
| MANITOULIN | 529.0 | -347.9 |
| QUEENSTON | 537.1 | -356.0 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 490.0 | | REYNALES-THOR-GRIMS |

COUNTY:NORFOLK TWP:L.ERIE BLOCK:126 TRACT:S LOT: CON:

WELL NAME:CONSUMERS 13837 L.ERIE 126-S PERMIT NO.:6170 INITIAL CLASS:EXT
OPERATOR :THE CONSUMERS GAS COMPANY LTD. TARGET SYS:CLI CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.2
BOT: LOG :545.0
ROTRY TOP:28.1 DRILLER:544.0
BOT:544.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :

**DATES**

PERMIT:19830329
START :19830816
COMPTD:19830818
OFFCNF:19840818
WRKOVR:
ABNDND:19830818

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 26 28
LONG :80 21 30

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:135.0 - 543.0 NO. BOTTLES:132
TRAY NUMBERS :2157
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 28.1 | HAN | | 28.1 |
| 244 | 53.6 | 134.2 | CEM | 228 | 0.0 |
| 178 | 29.8 | 216.4 | CEM | 145 | 0.0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 215.0 | 539.0 | CNFD | SCHLUMBERGER |
| 25.0 | 544.0 | GRL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 8.5 | 174.70 |
| DRIFT | 28.1 | 153.10 |
| HAMILTON | 134.0 | 47.20 |
| DUNDEE | 177.0 | 4.20 |
| LUCAS | 198.0 | -16.80 |
| AMHERSTBURG | 210.0 | -28.80 |
| BOIS BLANC | 235.0 | -53.80 |
| BASS ISLANDS | 244.6 | -63.40 |
| G SHALE | 275.0 | -93.80 |
| E CARBONATE | 304.6 | -123.4 |
| C SHALE | 341.8 | -160.6 |
| B ANHYDRITE | 363.2 | -182.0 |
| A2 CARBONATE | 368.6 | -187.4 |
| A2 ANHYDRITE | 375.0 | -193.8 |
| A1 CARBONATE | 376.9 | -195.7 |
| GUELPH | 382.6 | -201.4 |
| DECEW | 453.0 | -271.8 |
| ROCHESTER | 472.5 | -291.3 |
| REYNALES | 487.3 | -306.1 |
| THOROLD | 491.0 | -309.8 |
| GRIMSBY | 495.4 | -314.2 |
| CABOT HEAD | 508.0 | -326.8 |
| MANITOULIN | 530.7 | -349.5 |
| WHIRLPOOL | 535.0 | -353.8 |
| QUEENSTON | 535.8 | -354.6 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:NORFOLK TWP:L.ERIE BLOCK:150 TRACT:F LOT: CON:

WELL NAME:CONSUMERS 13839 L.ERIE 150-F
OPERATOR :THE CONSUMERS GAS COMPANY LTD.
PERMIT NO.:6169 INITIAL CLASS:NPW
TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.1
BOT: LOG :576.8
ROTRY TOP:33.7 DRILLER:577.0
BOT:577.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :569.0

**DATES**

PERMIT:19830329
START :19830822
COMPTD:19830824
OFFCNF:19840824
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 23 28
LONG :80 19 29

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:144.0 - 577.0 NO. BOTTLES:131
TRAY NUMBERS :2138
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 526.0 | 531.0 | 2.033 | 5009 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 33.7 | HAN | | 0.0 |
| 244 | 53.6 | 144.6 | CEM | 238 | 0.0 |
| 178 | 29.8 | 231.4 | CEM | 150 | 0.0 |
| 114 | 14.4 | 526.3 | CEM | 260 | 0.0 |
| 60 | 7.0 | 574.3 | HAN | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 235.0 | 577.0 | DLLM | SCHLUMBERGER |
| 26.0 | 575.0 | CNFD | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.4 | 174.70 |
| DRIFT | 33.7 | 147.40 |
| KETTLE POINT | 143.3 | 37.80 |
| HAMILTON | 153.8 | 27.30 |
| DUNDEE | 207.8 | -26.70 |
| LUCAS | 228.9 | -47.80 |
| AMHERSTBURG | 242.0 | -60.90 |
| BOIS BLANC | 258.3 | -77.20 |
| BASS ISLANDS | 273.7 | -92.60 |
| G SHALE | 309.9 | -128.8 |
| F SHALE | 319.1 | -138.0 |
| E CARBONATE | 339.4 | -158.3 |
| C SHALE | 376.8 | -195.7 |
| B ANHYDRITE | 399.4 | -218.3 |
| A2 CARBONATE | 405.2 | -224.1 |
| A2 ANHYDRITE | 415.5 | -234.4 |
| A1 CARBONATE | 416.4 | -235.3 |
| GUELPH | 419.4 | -238.3 |
| GOAT ISLAND | 445.0 | -263.9 |
| GASPORT | 466.0 | -284.9 |
| DECEW | 479.7 | -298.6 |
| ROCHESTER | 501.7 | -320.6 |
| REYNALES | 516.3 | -335.2 |
| THOROLD | 520.0 | -338.9 |
| GRIMSBY | 522.2 | -341.1 |
| CABOT HEAD | 547.0 | -365.9 |
| MANITOULIN | 562.3 | -381.2 |
| QUEENSTON | 566.0 | -384.9 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:NORFOLK TWP:L.ERIE BLOCK:151 TRACT:I LOT: CON:

WELL NAME:CONSUMERS 13838 L.ERIE 151-I PERMIT NO.:6168 INITIAL CLASS:NPW
OPERATOR :THE CONSUMERS GAS CO. LTD. TARGET SYS:CLI CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.3
BOT: LOG :578.3
ROTRY TOP:29.9 DRILLER:578.0
BOT:492.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :

**DATES**

PERMIT:19830329
START :19830926
COMPTD:19830928
OFFCNF:19840928
WRKOVR:
ABNDND:19830929

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 23 28
LONG :80 21 32

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:140.0 - 578.0 NO. BOTTLES:144
TRAY NUMBERS :2009
MISSNG INTERVAL:293.0-296.0 , 299.0-300.0

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 29.9 | HAN | | 29.9 |
| 244 | 53.6 | 137.5 | CEM | 150 | |
| 178 | 29.8 | 222.1 | CEM | 135 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 222.0 | 577.0 | DENL | SCHLUMBERGER |
| 25.0 | 572.0 | GRNL | SCHLUMBERGER |
| 240.0 | 577.0 | LATL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.6 | 174.70 |
| DRIFT | 29.9 | 151.40 |
| KETTLE POINT | 137.0 | 44.30 |
| HAMILTON | 155.4 | 25.90 |
| DUNDEE | 209.5 | -28.20 |
| LUCAS | 228.6 | -47.30 |
| AMHERSTBURG | 247.2 | -65.90 |
| BOIS BLANC | 262.3 | -81.00 |
| BASS ISLANDS | 274.9 | -93.60 |
| G SHALE | 312.8 | -131.5 |
| F SHALE | 319.9 | -138.6 |
| E CARBONATE | 342.4 | -161.1 |
| C SHALE | 381.2 | -199.9 |
| B ANHYDRITE | 402.2 | -220.9 |
| A2 CARBONATE | 408.0 | -226.7 |
| A2 ANHYDRITE | 418.3 | -237.0 |
| A1 CARBONATE | 419.6 | -238.3 |
| GUELPH | 423.0 | -241.7 |
| GOAT ISLAND | 437.0 | -255.7 |
| GASPORT | 458.0 | -276.7 |
| DECEW | 482.8 | -301.5 |
| ROCHESTER | 503.9 | -322.6 |
| REYNALES | 518.3 | -337.0 |
| THOROLD | 522.2 | -340.9 |
| GRIMSBY | 524.7 | -343.4 |
| CABOT HEAD | 539.6 | -358.3 |
| MANITOULIN | 560.8 | -379.5 |
| WHIRLPOOL | 566.7 | -385.4 |
| QUEENSTON | 568.4 | -387.1 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:NORFOLK TWP:L.ERIE BLOCK:151 TRACT:P LOT: CON:

WELL NAME:CONSUMERS 13841 L.ERIE 51-P PERMIT NO.:6166 INITIAL CLASS:NPW
OPERATOR :THE CONSUMERS GAS CO.LTD. TARGET SYS:CLI CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:
BOT: LOG :597.0
ROTRY TOP:23.7 DRILLER:597.0
BOT:597.8 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :

**DATES**

PERMIT:19830329
START :19830825
COMPTD:19830827
OFFCNF:19840827
WRKOVR:
ABNDND:19830828

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 21 29
LONG :80 24 28

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:

PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:111.0 - 597.0 NO. BOTTLES:159
TRAY NUMBERS :2124
MISSNG INTERVAL:144.0-147.0 , 180.0-183.0 , 363.0-366.0

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 23.7 | HAN | | 23.7 |
| 244 | 53.6 | 110.7 | CEM | 190 | 0.0 |
| 178 | 29.8 | 229.2 | CEM | 155 | 0.0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 25.0 | 590.0 | GRNL | SCHLUMBERGER |
| 229.0 | 596.0 | DENL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.4 | -6.40 |
| DRIFT | 23.7 | -23.70 |
| KETTLE POINT | 110.0 | -110.0 |
| HAMILTON | 173.0 | -173.0 |
| DUNDEE | 227.2 | -227.2 |
| LUCAS | 238.0 | -238.0 |
| AMHERSTBURG | 255.0 | -255.0 |
| BOIS BLANC | 282.0 | -282.0 |
| ORISKANY | 296.0 | -296.0 |
| BASS ISLANDS | 304.5 | -304.5 |
| C SHALE | 335.0 | -335.0 |
| F SHALE | 341.8 | -341.8 |
| C SHALE | 401.5 | -401.5 |
| B ANHYDRITE | 422.0 | -422.0 |
| A2 CARBONATE | 428.4 | -428.4 |
| A2 ANHYDRITE | 439.1 | -439.1 |
| A1 CARBONATE | 440.5 | -440.5 |
| GUELPH | 443.0 | -443.0 |
| DECEW | 501.6 | -501.6 |
| ROCHESTER | 526.2 | -526.2 |
| REYNALES | 540.5 | -540.5 |
| THOROLD | 544.4 | -544.4 |
| GRIMSBY | 547.3 | -547.3 |
| CABOT HEAD | 571.0 | -571.0 |
| MANITOULIN | 585.8 | -585.8 |
| WHIRLPOOL | 590.1 | -590.1 |
| QUEENSTON | 590.7 | -590.7 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:NORFOLK TWP:L.ERIE BLOCK:153 TRACT:G LOT: CON:

WELL NAME:CONSUMERS 13822 L.ERIE 153-G PERMIT NO.:6174 INITIAL CLASS:DEV
OPERATOR :THE CONSUMERS GAS CO. LTD. TARGET SYS:CLI CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV.181.1
BOT: LOG :575.0
ROTRY TOP:28.3 DRILLER:575.0
BOT:575.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :

**DATES**

PERMIT:19830329
START :19830804
COMPTD:19830806
OFFCNF:19830906
WRKOVR:
ABNDND:19830806

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 23 16
LONG :80 33 42

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:135.0 - 575.0 NO. BOTTLES:144
TRAY NUMBERS :2098
MISSNG INTERVAL:282.0-285.0 , 339.0-345.0

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| | 170.0 | | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 273.0 | 75.9 | 28.3 | HAN | | 28.3 |
| 244.0 | 53.6 | 132.3 | CEM | 224 | |
| 178.0 | 29.8 | 225.3 | CEM | 150 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 25.0 | 567.0 | CNFD | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.4 | 174.70 |
| DRIFT | 28.3 | 152.80 |
| HAMILTON | 135.0 | 46.10 |
| DUNDEE | 115.6 | 65.50 |
| LUCAS | 212.0 | -30.90 |
| BOIS BLANC | 241.3 | -60.20 |
| BASS ISLANDS | 267.8 | -86.70 |
| G SHALE | 298.8 | -117.7 |
| F SHALE | 306.4 | -125.3 |
| E CARBONATE | 328.6 | -147.5 |
| C SHALE | 366.4 | -185.3 |
| B MARKER | 374.8 | -193.7 |
| B ANHYDRITE | 388.0 | -206.9 |
| A2 CARBONATE | 393.5 | -212.4 |
| A1 CARBONATE | 404.7 | -223.6 |
| GUELPH | 408.5 | -227.4 |
| DECEW | 481.3 | -300.2 |
| ROCHESTER | 501.0 | -319.9 |
| REYNALES | 515.0 | -333.9 |
| GRIMSBY | 521.4 | -340.3 |
| CABOT HEAD | 538.2 | -357.1 |
| MANITOULIN | 557.2 | -376.1 |
| WHIRLPOOL | 563.5 | -382.4 |
| QUEENSTON | 564.6 | -383.5 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:NORFOLK TWP:L.ERIE BLOCK:153 TRACT:S LOT: CON:

WELL NAME:CONSUMERS 13798 L.ERIE 153-S PERMIT NO.:6152 INITIAL CLASS:DEV
OPERATOR :THE CONSUMERS GAS CO. LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.3
BOT: LOG :595.0
ROTRY TOP:28.5 DRILLER:595.0
BOT:595.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :567.0

**DATES**

PERMIT:19830325
START :19830920
COMPTD:19830924
OFFCNF:19830924
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 21 31
LONG :80 31 06

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS:2.4 103m3/d PRESSURE:5474 kPa
OIL: m3/d
PRODUCING FORMATION:THOROLD GRIMSBY
PRODUCING INTERVAL :538.8 - 549.0

**SAMPLES**

SAMPLE INTERVAL:111.0 - 595.0 NO. BOTTLES:161
TRAY NUMBERS :2148
MISSNG INTERVAL:

**GENERAL COMMENTS**

1. D EQUIVALENT 380.1 2. B EQUIVALENT 400.0

GEOLOGY BY:M.G. McMURRAY

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 535.0 | 550.0 | 2.4 | 5474 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 28.5 | HAN | | 28.5 |
| 244 | 53.6 | 109.1 | CEM | 175 | |
| 178 | 29.8 | 227.3 | CEM | 150 | |
| 114 | 14.4 | 592.2 | CEM | 272 | |
| 60 | 7.0 | 534.2 | HAN | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 226.0 | 595.0 | CNFD | SCHLUMBERGER |
| 242.0 | 595.0 | LATL | SCHLUMBERGER |
| 500.0 | 588.0 | CMPL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.6 | 174.70 |
| DRIFT | 28.5 | 152.80 |
| KETTLE POINT | 109.2 | 72.10 |
| HAMILTON | 161.1 | 20.20 |
| DUNDEE | 216.4 | -35.10 |
| LUCAS | 233.8 | -52.50 |
| AMHERSTBURG | 248.0 | -66.70 |
| BOIS BLANC | 271.2 | -89.90 |
| BASS ISLANDS | 288.7 | -107.4 |
| G SHALE | 317.1 | -135.8 |
| F SHALE | 324.8 | -143.5 |
| E CARBONATE | 348.4 | -167.1 |
| C SHALE | 384.7 | -203.4 |
| B MARKER | 394.2 | -212.9 |
| B ANHYDRITE | 407.4 | -226.1 |
| A2 CARBONATE | 413.0 | -231.7 |
| A2 ANHYDRITE | 423.4 | -242.1 |
| A1 CARBONATE | 425.0 | -243.7 |
| GUELPH | 428.2 | -246.9 |
| GOAT ISLAND | 441.5 | -260.2 |
| GASPORT | 466.2 | -284.9 |
| DECEW | 497.4 | -316.1 |
| ROCHESTER | 519.6 | -338.3 |
| REYNALES | 533.1 | -351.8 |
| THOROLD | 537.3 | -356.0 |
| GRIMSBY | 543.3 | -362.0 |
| CABOT HEAD | 554.8 | -373.5 |
| MANITOULIN | 579.3 | -398.0 |
| WHIRLPOOL | 583.0 | -401.7 |
| QUEENSTON | 584.0 | -402.7 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 535.0 | | GRIMSBY |

COUNTY:NORFOLK TWP:L.ERIE BLOCK:154 TRACT:G LOT: CON:

WELL NAME:CONSUMERS 13845 L.ERIE 154-G PERMIT NO.:6336 INITIAL CLASS:DEV
OPERATOR :THE CONSUMERS GAS CO. LTD. TARGET SYS:CLI CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.1
BOT: LOG :581.0
ROTRY TOP:27.7 DRILLER:581.0
BOT:632.8 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :

**DATES**

PERMIT:19830830
START :19830907
COMPTD:19830909
OFFCNF:19831009
WRKOVR:
ABNDND:19830910

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 23 15
LONG :80 38 19

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10$^3$m$^3$/d PRESSURE: kPa
OIL: m$^3$/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:126.0 - 581.0 NO. BOTTLES:151
TRAY NUMBERS :2006
MISSNG INTERVAL:228.0-231.0

**GENERAL COMMENTS**

GEOLOGY BY:G.M. CARD

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10$^3$m$^3$/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m$^3$/d) | DENSITY (kg/m$^3$) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 27.7 | HAN | | 27.7 |
| 244 | 53.6 | 125.5 | CEM | 211 | |
| 178 | 29.8 | 227.7 | CEM | 152 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 20.0 | 580.0 | CNFD | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.4 | 174.70 |
| DRIFT | 27.7 | 153.40 |
| KETTLE POINT | 107.0 | 74.10 |
| HAMILTON | 133.6 | 47.50 |
| DUNDEE | 189.7 | -8.60 |
| LUCAS | 208.0 | -26.90 |
| AMHERSTBURG | 230.0 | -48.90 |
| BOIS BLANC | 252.0 | -70.90 |
| BASS ISLANDS | 262.5 | -81.40 |
| G SHALE | 292.8 | -111.7 |
| F SHALE | 300.0 | -118.9 |
| E CARBONATE | 323.8 | -142.7 |
| C SHALE | 360.8 | -179.7 |
| B MARKER | 374.0 | -192.9 |
| B ANHYDRITE | 380.4 | -199.3 |
| A2 CARBONATE | 386.3 | -205.2 |
| A2 ANHYDRITE | 395.1 | -214.0 |
| A1 CARBONATE | 398.5 | -217.4 |
| GUELPH | 400.7 | -219.6 |
| DECEW | 483.7 | -302.6 |
| ROCHESTER | 506.2 | -325.1 |
| REYNALES | 520.3 | -339.2 |
| THOROLD | 524.0 | -342.9 |
| GRIMSBY | 526.0 | -344.9 |
| CABOT HEAD | 541.0 | -359.9 |
| MANITOULIN | 562.4 | -381.3 |
| WHIRLPOOL | 568.0 | -386.9 |
| QUEENSTON | 568.7 | -387.6 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:NORFOLK TWP:L.ERIE BLOCK:155 TRACT:G LOT: CON:

WELL NAME:CONSUMERS 13847 L.ERIE 155-G PERMIT NO.:6335 INITIAL CLASS:DEV
OPERATOR :CONSUMERS GAS CO. LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.3
BOT: LOG :580.2
ROTRY TOP:27.7 DRILLER:580.0
BOT:595.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :

**DATES**

PERMIT:19830830
START :19830913
COMPTD:19830915
OFFCNF:19831015
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 23 21
LONG :80 43 44

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS:0.52 103m3/d PRESSURE:3877 kPa
OIL: m3/d
PRODUCING FORMATION:GRIMSBY
PRODUCING INTERVAL :534.0 - 540.0

**SAMPLES**

SAMPLE INTERVAL:125.0 - 580.0 NO. BOTTLES:148
TRAY NUMBERS :2012
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 524.0 | 542.0 | 0.52 | 3877 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 27.7 | HAN | | 27.7 |
| 244 | 53.6 | 125.2 | CEM | 210 | 0 |
| 178 | 29.8 | 233.1 | CEM | 155 | 0 |
| 114 | 14.4 | 530.0 | CEM | 265 | 0 |
| 60 | 7.0 | 577.7 | HAN | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 25.0 | 579.2 | CNFD | SCHLUMBERGER |
| 245.0 | 579.2 | LATL | SCHLUMBERGER |
| 486.0 | 573.0 | CMPL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. | NO. BOXES | ANAL |
|---|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.6 | 174.70 |
| DRIFT | 27.7 | 153.60 |
| KETTLE POINT | 124.4 | 56.90 |
| HAMILTON | 128.9 | 52.40 |
| DUNDEE | 185.4 | -4.10 |
| LUCAS | 202.7 | -21.40 |
| AMHERSTBURG | 225.8 | -44.50 |
| BOIS BLANC | 241.7 | -60.40 |
| ORISKANY | 259.7 | -78.40 |
| BASS ISLANDS | 268.3 | -87.00 |
| G SHALE | 301.4 | -120.1 |
| F SHALE | 308.4 | -127.1 |
| E CARBONATE | 332.0 | -150.7 |
| C SHALE | 370.5 | -189.2 |
| B MARKER | 386.0 | -204.7 |
| B ANHYDRITE | 392.6 | -211.3 |
| A2 CARBONATE | 397.7 | -216.4 |
| A2 ANHYDRITE | 409.9 | -228.6 |
| A1 CARBONATE | 411.5 | -230.2 |
| GUELPH | 414.2 | -232.9 |
| GOAT ISLAND | 445.0 | -263.7 |
| GASPORT | 475.0 | -293.7 |
| DECEW | 484.8 | -303.5 |
| ROCHESTER | 509.4 | -328.1 |
| REYNALES | 522.4 | -341.1 |
| THOROLD | 525.9 | -344.6 |
| GRIMSBY | 528.3 | -347.0 |
| CABOT HEAD | 543.4 | -362.1 |
| MANITOULIN | 563.1 | -381.8 |
| QUEENSTON | 570.1 | -388.8 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 524.0 | | THOROLD-GRIMSBY |
| 524.0 | | THOROLD-GRIMSBY |

COUNTY:NORFOLK TWP:L.ERIE BLOCK:156 TRACT:O LOT: CON:

WELL NAME:CONSUMERS 13846 L.ERIE 156-O PERMIT NO.:8337 INITIAL CLASS:DEV
OPERATOR :THE CONSUMERS GAS CO. LTD. TARGET SYS:CLI CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.1
BOT: LOG :594.0
ROTRY TOP:27.8 DRILLER:594.0
BOT:594.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :

**DATES**

PERMIT:19830830
START :19830910
COMPTD:19830912
OFFCNF:19831012
WRKOVR:
ABNDND:19830913

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 22 35
LONG :80 49 45

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m³/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:111.0 - 594.0 NO. BOTTLES:160
TRAY NUMBERS :2150
MISSNG INTERVAL:498.0-501.0

**GENERAL COMMENTS**

1. B EQUIVALENT 406.8

GEOLOGY BY:G.M. CARD

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m³/d) | DENSITY (kg/m³) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 27.8 | HAN | | 27.8 |
| 244 | 53.6 | 111.2 | CEM | 182 | |
| 178 | 29.8 | 226.1 | CEM | 150 | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 25.0 | 594.0 | CNFD | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LOCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.4 | 174.70 |
| DRIFT | 27.8 | 153.30 |
| KETTLE POINT | 107.5 | 73.60 |
| HAMILTON | 117.3 | 63.80 |
| DUNDEE | 173.9 | 7.20 |
| LUCAS | 193.0 | -11.90 |
| AMHERSTBURG | 213.0 | -31.90 |
| BOIS BLANC | 234.0 | -52.90 |
| ORISKANY | 250.5 | -69.40 |
| BASS ISLANDS | 275.3 | -94.20 |
| G SHALE | 319.5 | -138.4 |
| F SHALE | 327.4 | -146.3 |
| E CARBONATE | 352.0 | -170.9 |
| C SHALE | 391.6 | -210.5 |
| B MARKER | 400.5 | -219.4 |
| B ANHYDRITE | 414.5 | -233.4 |
| A2 CARBONATE | 420.5 | -239.4 |
| A2 ANHYDRITE | 433.8 | -252.7 |
| A1 CARBONATE | 435.7 | -254.6 |
| GUELPH | 445.0 | -263.9 |
| GOAT ISLAND | 467.5 | -286.4 |
| GASPORT | 496.0 | -314.9 |
| DECEW | 504.5 | -323.4 |
| ROCHESTER | 526.0 | -344.9 |
| REYNALES | 540.0 | -358.9 |
| THOROLD | 543.6 | -362.5 |
| GRIMSBY | 546.0 | -364.9 |
| CABOT HEAD | 562.6 | -381.5 |
| MANITOULIN | 580.4 | -399.3 |
| WHIRLPOOL | 584.6 | -403.5 |
| QUEENSTON | 585.0 | -403.9 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:NORFOLK TWP:L.ERIE BLOCK:189 TRACT:E LOT: CON:

WELL NAME:CONSUMERS 13818 L.ERIE 189-E PERMIT NO.:6161 INITIAL CLASS:EXT
OPERATOR :THE CONSUMERS GAS CO. LTD. TARGET SYS:CLI CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.2
BOT: LOG :617.0
ROTRY TOP:28.4 DRILLER:617.0
BOT:617.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :

**DATES**

PERMIT:19830325
START :19830917
COMPTD:19830919
OFFCNF:19840919
WRKOVR:
ABNDND:19830920

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 19 24
LONG :80 34 42

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:106.0 - 617.0 NO. BOTTLES:170
TRAY NUMBERS :6869
MISSNG INTERVAL:603.0-606.0

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 28.4 | HAN | | 28.4 |
| 244 | 53.6 | 106.5 | CEM | 170 | |
| 178 | 29.8 | 226.9 | CEM | 148 | 0.0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 25.0 | 616.0 | CNFD | SCHLUMBERGER |
| 238.0 | 616.0 | LATL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.5 | 174.70 |
| DRIFT | 28.4 | 152.80 |
| KETTLE POINT | 104.3 | 76.90 |
| HAMILTON | 175.9 | 5.30 |
| DUNDEE | 230.6 | -49.40 |
| LUCAS | 245.8 | -64.60 |
| AMHERSTBURG | 261.0 | -79.80 |
| BOIS BLANC | 287.4 | -106.2 |
| BASS ISLANDS | 302.5 | -121.3 |
| G SHALE | 341.4 | -160.2 |
| F SHALE | 349.6 | -168.4 |
| E CARBONATE | 373.1 | -191.9 |
| C SHALE | 410.7 | -229.5 |
| B MARKER | 431.0 | -249.8 |
| B ANHYDRITE | 432.6 | -251.6 |
| A2 CARBONATE | 438.6 | -257.4 |
| A2 ANHYDRITE | 446.9 | -265.7 |
| A1 CARBONATE | 448.0 | -266.8 |
| GUELPH | 450.8 | -269.6 |
| GOAT ISLAND | 480.0 | -298.8 |
| GASPORT | 510.0 | -328.8 |
| DECEW | 519.5 | -338.3 |
| ROCHESTER | 542.1 | -360.9 |
| REYNALES | 556.1 | -374.9 |
| THOROLD | 560.2 | -379.0 |
| GRIMSBY | 562.9 | -381.7 |
| CABOT HEAD | 577.2 | -396.0 |
| MANITOULIN | 597.8 | -416.6 |
| QUEENSTON | 605.9 | -424.7 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:NORFOLK TWP:L.ERIE BLOCK:46 TRACT:F LOT: CON:

WELL NAME:CWP ET AL DOVER L.ERIE 46-F-2 PERMIT NO.:6235 INITIAL CLASS:DEV
OPERATOR :CONSOLIDATED WEST PETROLEUM LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:180.8
BOT: LOG :373.5
ROTRY TOP:17.7 DRILLER:373.0
BOT:373.0 DEEPEND:
DRLG FLD :GEL CHEM PLUGBK :

**DATES**

PERMIT:19830429
START :19830712
COMPTD:19830718
OFFCNF:19830818
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 43 42
LONG :80 09 47

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:Y
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE:4026 kPa
OIL: m3/d
PRODUCING FORMATION:REYNALES-THOR-GRIMSB
PRODUCING INTERVAL :311.3 - 317.5

**SAMPLES**

SAMPLE INTERVAL:48.0 - 373.0 NO. BOTTLES:109
TRAY NUMBERS :6566
MISSNG INTERVAL:

**GENERAL COMMENTS**

GEOLOGY BY:M. MCMURRAY

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 59.0 | | SHOW | | N |
| 310.0 | 315.0 | TSTM | 4026 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 340 | | 45.23 | CEM | 75 | |
| 193 | | 97.13 | CEM | 100 | |
| 114 | | 373.5 | CEM | 175 | |
| 60 | | 307.9 | HAN | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 230.0 | 362.0 | CMPL | SCHLUMBERGER |
| 24.0 | 373.0 | CNFD | SCHLUMBERGER |
| 97.2 | 373.0 | DIFS | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.1 | 174.70 |
| DRIFT | 17.7 | 163.10 |
| DUNDEE | 29.3 | 151.50 |
| LUCAS | 42.6 | 138.20 |
| AMHERSTBURG | 57.0 | 123.80 |
| BOIS BLANC | 80.3 | 100.50 |
| BASS ISLANDS | 87.6 | 93.20 |
| G SHALE | 108.1 | 72.70 |
| F SHALE | 115.5 | 65.30 |
| E CARBONATE | 139.5 | 41.30 |
| C SHALE | 172.8 | 8.00 |
| B MARKER | 185.4 | -4.60 |
| B ANHYDRITE | 198.3 | -17.50 |
| A2 CARBONATE | 202.0 | -21.20 |
| A2 ANHYDRITE | 212.0 | -31.20 |
| A1 CARBONATE | 212.7 | -31.90 |
| GUELPH | 215.4 | -34.60 |
| ROCHESTER | 286.0 | -105.2 |
| IRONDEQUOIT | 307.0 | -126.2 |
| REYNALES | 309.8 | -129.0 |
| THOROLD | 313.0 | -132.2 |
| GRIMSBY | 315.8 | -135.0 |
| CABOT HEAD | 324.9 | -144.1 |
| MANITOULIN | 345.7 | -164.9 |
| WHIRLPOOL | 348.2 | -167.4 |
| QUEENSTON | 349.5 | -168.7 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 314.0 | | GRIMSBY |
| 310.0 | | THOROLD |

COUNTY:NORFOLK TWP:L.ERIE BLOCK:46 TRACT:S LOT: CON:

WELL NAME:CWP ET AL DOVER L.ERIE 46-S-2 PERMIT NO.:6237 INITIAL CLASS:DEV
OPERATOR :CONSOLIDATED WEST PETROLEUM LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:180.7
BOT: LOG :379.4
ROTRY TOP:22.1 DRILLER:379.0
BOT:379.4 DEEPEND:
DRLG FLD :GEL CHEM PLUGBK :364.8

**DATES**

PERMIT:19830429
START :19830706
COMPTD:19830709
OFFCNF:19830809
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 41 43
LONG :80 06 46

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:Y
BPT RPTS:N

**COMPLETION DATA**

GAS:2.19 103m3/d PRESSURE:4019 kPa
OIL: m3/d
PRODUCING FORMATION:THOROLD-GRIMSBY
PRODUCING INTERVAL :315.0 - 320.5

**SAMPLES**

SAMPLE INTERVAL:71.0 - 379.0 NO. BOTTLES:103
TRAY NUMBERS :6569
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 313.0 | 318.0 | 2.2 | 4019 | N |
| 318.0 | 330.0 | TSTM | 2844 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 340 | 71.4 | 68.5 | CEM | 125 | 0 |
| 193 | 39.3 | 127.4 | CEM | 125 | 0 |
| 114 | 14.14 | 351.4 | CEM | 100 | 0 |
| 60 | 5.95 | 353.0 | HAN | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 19.0 | 378.0 | CNFD | SCHLUMBERGER |
| 364.0 | 364.8 | CMPL | SCHLUMBERGER |
| 121.0 | 377.0 | DLLM | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.0 | 174.70 |
| DRIFT | 22.1 | 158.60 |
| LUCAS | 53.7 | 127.00 |
| AMHERSTBURG | 59.4 | 121.30 |
| BOIS BLANC | 76.8 | 103.90 |
| BASS ISLANDS | 89.7 | 91.00 |
| G SHALE | 105.0 | 75.70 |
| F SHALE | 114.0 | 66.70 |
| E CARBONATE | 137.7 | 43.00 |
| C SHALE | 174.5 | 6.20 |
| B MARKER | 188.0 | -7.30 |
| B ANHYDRITE | 195.3 | -14.60 |
| A2 CARBONATE | 200.2 | -19.50 |
| A2 ANHYDRITE | 213.3 | -32.60 |
| A1 CARBONATE | 213.8 | -33.10 |
| GUELPH | 215.0 | -34.30 |
| GOAT ISLAND | 258.0 | -77.30 |
| GASPORT | 270.0 | -89.30 |
| DECEW | 287.0 | -106.3 |
| ROCHESTER | 299.8 | -119.1 |
| REYNALES | 310.9 | -130.2 |
| THOROLD | 314.8 | -134.1 |
| GRIMSBY | 316.3 | -135.6 |
| CABOT HEAD | 328.0 | -147.3 |
| WHIRLPOOL | 352.5 | -171.8 |
| QUEENSTON | 354.6 | -173.9 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 318.0 | | GRIMSBY |
| 313.0 | | THOROLD |

COUNTY:NORFOLK TWP:L.ERIE BLOCK:46 TRACT:U LOT: CON:

WELL NAME:CWP ET AL DOVER #4 L.ERIE 46-U PERMIT NO.:6234 INITIAL CLASS:DEV
OPERATOR :CONSOLIDATED WEST PETROLEUM LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:161.0
BOT: LOG :388.0
ROTRY TOP:25.8 DRILLER:388.0
BOT:387.7 DEEPEND:
DRLG FLD :GEL CHEM & PLUGBK :373.4

**DATES**

PERMIT:19830729
START :19830706
COMPTD:19830710
OFFCNF:19830810
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 40 26
LONG :80 05 19

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS:35.3 103m3/d PRESSURE:3591 kPa
OIL: m3/d
PRODUCING FORMATION:GRIMSBY
PRODUCING INTERVAL :325.8 - 331.0

**SAMPLES**

SAMPLE INTERVAL:69.0 - 387.0 NO. BOTTLES:106
TRAY NUMBERS :3546
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 263.0 | | SHOW | | N |
| 330.0 | | SHOW | | N |
| 325.0 | 337.0 | 35.3 | 3591 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 66.7 | CEM | 100 | 0 |
| 193 | 39.3 | 116.6 | CEM | 75 | 0 |
| 114 | 14.1 | 383.2 | CEM | 175 | 0 |
| 60 | 6.0 | 321.8 | HAN | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 23.0 | 379.0 | SONL | SCHLUMBERGER |
| 265.0 | 365.0 | CMPL | SCHLUMBERGER |
| 116.0 | 386.0 | DLLM | SCHLUMBERGER |
| 25.5 | 371.5 | CNFD | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 6.3 | 174.70 |
| LUCAS | 50.5 | 130.50 |
| AMHERSTBURG | 57.8 | 123.20 |
| BOIS BLANC | 74.4 | 106.60 |
| SPRINGVALE | 87.4 | 93.60 |
| BASS ISLANDS | 98.6 | 82.40 |
| G SHALE | 115.4 | 65.60 |
| F SHALE | 120.5 | 60.50 |
| E CARBONATE | 148.5 | 32.50 |
| C SHALE | 179.0 | 2.00 |
| B MARKER | 187.6 | -6.60 |
| B ANHYDRITE | 200.2 | -19.20 |
| A2 CARBONATE | 205.1 | -24.10 |
| A1 CARBONATE | 211.2 | -30.20 |
| GUELPH | 217.8 | -36.80 |
| GOAT ISLAND | 261.4 | -80.40 |
| GASPORT | 275.6 | -94.60 |
| DECEW | 287.5 | -106.5 |
| ROCHESTER | 302.6 | -121.6 |
| REYNALES | 317.5 | -136.5 |
| THOROLD | 321.0 | -140.0 |
| GRIMSBY | 323.7 | -142.7 |
| CABOT HEAD | 339.5 | -158.5 |
| MANITOULIN | 357.7 | -176.7 |
| WHIRLPOOL | 360.8 | -179.8 |
| QUEENSTON | 362.5 | -181.5 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 325.0 | | GRIMSBY |

COUNTY:NORFOLK TWP:L.ERIE BLOCK:63 TRACT:T LOT: CON:

WELL NAME:PEMBINA #2 L.ERIE 63-T PERMIT NO.:6189 INITIAL CLASS:DEV
OPERATOR :PEMBINA EXPLORATION CO. LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:161.0
BOT: LOG :449.0
ROTRY TOP:16.3 DRILLER:448.0
BOT:449.0 DEEPEND:
DRLG FLD :GEL CHEM & PLUGBK :436.0

**DATES**

PERMIT:19830414
START :19830629
COMPTD:19830703
OFFCNF:19830803
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 36 41
LONG :80 10 46

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:Y
BPT RPTS:N

**COMPLETION DATA**

GAS:5.98 103m3/d PRESSURE:5265 kPa
OIL: m3/d
PRODUCING FORMATION:WHIRLPOOL
PRODUCING INTERVAL :421.5 - 423.0

**SAMPLES**

SAMPLE INTERVAL:105.0 - 447.0 NO. BOTTLES:114
TRAY NUMBERS :7567
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 115.0 | | SHOW | | N |
| 194.0 | | SHOW | | N |
| 383.5 | 391.0 | 3.79 | 4107 | N |
| 419.0 | 425.0 | 5.98 | 5265 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 297.0 | 307.7 | | SAL | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 103.0 | CEM | 175 | 0 |
| 193 | 39.3 | 155.5 | CEM | 100 | 0 |
| 114 | 14.1 | 418.0 | CEM | 225 | 0 |
| 60 | 5.95 | 446.01 | HAN | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 25.0 | 448.2 | CNFD | SCHLUMBERGER |
| 155.7 | 448.2 | SONL | SCHLUMBERGER |
| 0.0 | 436.0 | CMPL | SCHLUMBERGER |
| 155.0 | 447.0 | DLLM | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. | BOXES | ANAL |
|---|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.3 | 174.70 |
| DRIFT | 16.3 | 164.70 |
| DUNDEE | 90.0 | 91.00 |
| LUCAS | 100.3 | 80.70 |
| AMHERSTBURG | 114.8 | 66.20 |
| BOIS BLANC | 132.4 | 48.60 |
| BASS ISLANDS | 144.0 | 37.00 |
| G SHALE | 176.4 | 4.60 |
| F SHALE | 181.7 | -0.70 |
| E CARBONATE | 204.3 | -23.30 |
| C SHALE | 241.8 | -60.80 |
| B ANHYDRITE | 263.6 | -82.60 |
| A2 CARBONATE | 269.5 | -88.50 |
| A2 ANHYDRITE | 279.0 | -98.00 |
| A1 CARBONATE | 282.0 | -101.0 |
| GUELPH | 287.8 | -106.8 |
| GOAT ISLAND | 316.0 | -135.0 |
| GASPORT | 340.0 | -159.0 |
| DECEW | 347.2 | -166.2 |
| ROCHESTER | 365.3 | -184.3 |
| REYNALES | 376.2 | -195.2 |
| THOROLD | 380.0 | -199.0 |
| GRIMSBY | 381.2 | -200.2 |
| CABOT HEAD | 398.6 | -217.6 |
| WHIRLPOOL | 419.5 | -238.5 |
| QUEENSTON | 423.3 | -242.3 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 419.0 | | WHIRLPOOL |
| 383.5 | | GRIMSBY |

COUNTY:NORFOLK TWP:L.ERIE BLOCK:95 TRACT:L LOT: CON:

WELL NAME:CONSUMERS 13830 L.ERIE 95-L PERMIT NO.:6231 INITIAL CLASS:DEV
OPERATOR :CONSUMERS GAS CO. LTD. TARGET SYS:CLI CURRENT STAT.:GS-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.1
BOT: LOG :481.5
ROTRY TOP:24.7 DRILLER:630.0
BOT:482.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :

**DATES**

PERMIT:19830429
START :19830711
COMPTD:19830714
OFFCNF:19830814
WRKOVR:
ABNDND:19830715

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 32 29
LONG :80 31 10

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:122.0 - 481.0 NO. BOTTLES:121
TRAY NUMBERS :5785
MISSNG INTERVAL:

**GENERAL COMMENTS**

GEOLOGY BY:JAMES LAU

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 435.0 | 445.0 | SHOW | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 21.0 | HAN | | 21.0 |
| 244 | 53.6 | 122.7 | CEM | 208 | 0 |
| 178 | 29.8 | 205.9 | CEM | 140 | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 25.0 | 475.0 | CNFD | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.4 | 174.70 |
| DRIFT | 24.7 | 156.40 |
| DUNDEE | 117.8 | 63.30 |
| LUCAS | 140.5 | 40.60 |
| AMHERSTBURG | 159.6 | 21.50 |
| BOIS BLANC | 177.3 | 3.80 |
| ORISKANY | 195.0 | -13.90 |
| BASS ISLANDS | 206.0 | -24.90 |
| G SHALE | 231.0 | -49.90 |
| F SHALE | 237.7 | -56.60 |
| E CARBONATE | 261.5 | -80.40 |
| C SHALE | 298.7 | -117.6 |
| B MARKER | 307.5 | -126.4 |
| B ANHYDRITE | 321.0 | -139.9 |
| A2 CARBONATE | 326.7 | -145.6 |
| A1 CARBONATE | 333.8 | -152.7 |
| GUELPH | 341.5 | -160.4 |
| DECEW | 406.4 | -225.3 |
| ROCHESTER | 418.9 | -237.8 |
| REYNALES | 430.3 | -249.2 |
| THOROLD | 433.2 | -252.1 |
| GRIMSBY | 434.2 | -253.1 |
| CABOT HEAD | 449.5 | -268.4 |
| MANITOULIN | 469.0 | -287.9 |
| QUEENSTON | 472.5 | -291.4 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:NORFOLK TWP:L.ERIE BLOCK:95 TRACT:N LOT: CON:

WELL NAME:CONSUMERS 13829 L.ERIE 95-N PERMIT NO.:6232 INITIAL CLASS:DEV
OPERATOR :THE CONSUMERS GAS COMPANY LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.1
BOT: LOG :480.7
ROTRY TOP:24.7 DRILLER:481.0
BOT:484.8 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :463.8

**DATES**

PERMIT:19830429
START :19830716
COMPTD:19830719
OFFCNF:19830819
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 32 59
LONG :80 33 11

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS:2.34 103m3/d PRESSURE:5046 kPa
OIL: m3/d
PRODUCING FORMATION:GRIMSBY
PRODUCING INTERVAL :437.0 - 440.0

**SAMPLES**

SAMPLE INTERVAL:112.0 - 481.0 NO. BOTTLES:121
TRAY NUMBERS :6440
MISSNG INTERVAL:246.0-249.0 , 282.0-285.0

**GENERAL COMMENTS**

**GEOLOGY BY:G.M. CARD**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 431.0 | 441.5 | 2.34 | 5046 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 24.7 | HAN | | 24.7 |
| 244 | 53.6 | 112.8 | CEM | 192 | 0.0 |
| 178 | 29.8 | 204.3 | CEM | 140 | 0.0 |
| 114 | 14.4 | 432.9 | CEM | 225 | 0.0 |
| 60 | 7.0 | 473.4 | HAN | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 25.0 | 475.0 | CNFD | SCHLUMBERGER |
| 215.0 | 480.0 | LATL | SCHLUMBERGER |
| 391.0 | 464.0 | CMPL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.4 | 174.70 |
| DRIFT | 24.7 | 156.40 |
| DUNDEE | 112.4 | 68.70 |
| LUCAS | 138.3 | 42.80 |
| AMHERSTBURG | 158.5 | 22.60 |
| BOIS BLANC | 177.2 | 3.90 |
| BASS ISLANDS | 203.9 | -22.80 |
| G SHALE | 228.7 | -47.60 |
| F SHALE | 236.4 | -55.30 |
| E CARBONATE | 263.3 | -82.20 |
| C SHALE | 294.3 | -113.2 |
| B MARKER | 303.7 | -122.6 |
| B ANHYDRITE | 316.6 | -135.5 |
| A2 CARBONATE | 322.4 | -141.3 |
| A2 ANHYDRITE | 333.8 | -152.7 |
| A1 CARBONATE | 335.3 | -154.2 |
| GUELPH | 338.3 | -157.2 |
| GOAT ISLAND | 352.0 | -170.9 |
| GASPORT | 385.5 | -204.4 |
| DECEW | 400.8 | -219.7 |
| ROCHESTER | 418.2 | -237.1 |
| REYNALES | 428.6 | -247.5 |
| THOROLD | 431.7 | -250.6 |
| GRIMSBY | 434.1 | -253.0 |
| CABOT HEAD | 446.5 | -265.4 |
| MANITOULIN | 467.4 | -286.3 |
| QUEENSTON | 471.3 | -290.2 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 431.0 | | THOROLD GRIMSBY |

COUNTY:NORFOLK TWP:L.ERIE BLOCK:95 TRACT:S LOT: CON:

WELL NAME:CONSUMERS 13838 L.ERIE 95-S PERMIT NO.:6228 INITIAL CLASS:DEV
OPERATOR :CONSUMERS GAS CO. LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.2
BOT: LOG :492.0
ROTRY TOP:22.5 DRILLER:493.0
BOT:493.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :475.0

**DATES**

PERMIT:19831130
START :19830707
COMPTD:19830709
OFFCNF:19830809
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 31 34
LONG :80 31 45

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS:4.843 103m3/d PRESSURE:5027 kPa
OIL: m3/d
PRODUCING FORMATION:GRIMSBY
PRODUCING INTERVAL :452.2 - 453.0

**SAMPLES**

SAMPLE INTERVAL:122.0 - 492.0 NO. BOTTLES:122
TRAY NUMBERS :5782
MISSNG INTERVAL:207.0-210.0 , 381.0-384.0

**GENERAL COMMENTS**

GEOLOGY BY:DEBRA K. PARKER & J. LAU

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 451.0 | 454.0 | 4.84 | 5027 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 22.5 | HAN | | 22.5 |
| 244 | 53.6 | 124.0 | CEM | 211 | 0 |
| 178 | 29.8 | 205.3 | CEM | 140 | 0 |
| 114 | 14.4 | 486.2 | CEM | 230 | 0 |
| 60 | 7.0 | 448.2 | HAN | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 26.0 | 486.0 | CNFD | SCHLUMBERGER |
| 232.0 | 492.5 | | SCHLUMBERGER |
| 426.8 | 471.0 | CMPL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.5 | 174.70 |
| DRIFT | 22.5 | 158.70 |
| DUNDEE | 127.5 | 53.70 |
| LUCAS | 158.6 | 22.60 |
| AMHERSTBURG | 165.0 | 16.20 |
| BOIS BLANC | 189.8 | -8.60 |
| ORISKANY | 200.0 | -18.80 |
| BASS ISLANDS | 217.0 | -35.80 |
| G SHALE | 242.0 | -60.80 |
| F SHALE | 248.8 | -67.60 |
| E CARBONATE | 276.0 | -94.80 |
| C SHALE | 309.4 | -128.2 |
| B MARKER | 317.0 | -135.8 |
| B ANHYDRITE | 329.8 | -148.6 |
| A2 CARBONATE | 335.2 | -154.0 |
| A2 ANHYDRITE | 338.8 | -157.6 |
| A1 CARBONATE | 339.8 | -158.6 |
| GUELPH | 350.4 | -169.2 |
| DECEW | 410.0 | -228.8 |
| ROCHESTER | 427.2 | -246.0 |
| REYNALES | 438.6 | -257.4 |
| THOROLD | 442.0 | -260.8 |
| GRIMSBY | 444.5 | -263.3 |
| CABOT HEAD | 459.8 | -278.6 |
| MANITOULIN | 476.8 | -295.6 |
| WHIRLPOOL | 480.0 | -298.8 |
| QUEENSTON | 482.4 | -301.2 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 451.5 | | GRIMSBY |

COUNTY:NORFOLK TWP:L.ERIE BLOCK:96 TRACT:T LOT: CON:

WELL NAME:CONSUMERS 13827 L.ERIE 96-T PERMIT NO.:6233 INITIAL CLASS:DEV
OPERATOR :CONSUMERS GAS CO. LTD. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:181.2
BOT: LOG :499.0
ROTRY TOP:23.9 DRILLER:498.0
BOT:498.0 DEEPEND:
DRLG FLD :POLYBRINE PLUGBK :492.0

**DATES**

PERMIT:19830429
START :19830721
COMPTD:19830723
OFFCNF:19830823
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:
EAST :
WEST :
LAT :42 31 22
LONG :80 35 26

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:Y
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS:1.306 103m3/d PRESSURE:4198 kPa
OIL: m3/d
PRODUCING FORMATION:THOROLD-GRIMSBY
PRODUCING INTERVAL :447.4 - 451.5

**SAMPLES**

SAMPLE INTERVAL:117.0 - 498.0 NO. BOTTLES:122
TRAY NUMBERS :2082
MISSNG INTERVAL:

**GENERAL COMMENTS**

GEOLOGY BY:JAMES LAU

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 445.0 | 453.0 | 1.306 | 4198 | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273 | 75.9 | 23.9 | HAN | | 23.9 |
| 244 | 53.6 | 117.6 | CEM | 197 | 0 |
| 178 | 29.8 | 207.7 | CEM | 138 | 0 |
| 114 | 14.4 | 496.9 | CEM | 228 | 0 |
| 60 | 7.0 | 444.6 | HAN | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 424.0 | 475.3 | CMPL | SCHLUMBERGER |
| 215.8 | 492.0 | DLLM | SCHLUMBERGER |
| 26.0 | 491.5 | CNFD | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| LAKE LEVEL | 6.5 | 174.70 |
| DRIFT | 23.9 | 157.30 |
| DUNDEE | 123.9 | 57.30 |
| LUCAS | 148.7 | 32.50 |
| AMHERSTBURG | 171.5 | 9.70 |
| BOIS BLANC | 189.3 | -8.10 |
| ORISKANY | 201.0 | -19.80 |
| BASS ISLANDS | 212.3 | -31.10 |
| G SHALE | 242.6 | -61.40 |
| F SHALE | 249.0 | -67.80 |
| E CARBONATE | 277.5 | -96.30 |
| C SHALE | 310.4 | -129.2 |
| B MARKER | 318.6 | -137.4 |
| B ANHYDRITE | 331.3 | -150.1 |
| A2 CARBONATE | 336.5 | -155.3 |
| A1 CARBONATE | 341.8 | -160.6 |
| GUELPH | 354.4 | -173.2 |
| DECEW | 415.0 | -233.8 |
| ROCHESTER | 432.4 | -251.2 |
| REYNALES | 442.8 | -261.6 |
| THOROLD | 446.0 | -264.8 |
| GRIMSBY | 448.7 | -267.5 |
| CABOT HEAD | 461.3 | -280.1 |
| MANITOULIN | 482.5 | -301.3 |
| WHIRLPOOL | 484.9 | -303.4 |
| QUEENSTON | 487.3 | -306.1 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|
| 445.0 | | THOROLD-GRIMSBY |

COUNTY:NORFOLK TWP:N. WALSINGHAM BLOCK: TRACT 2 LOT:15 CON:VII

WELL NAME:F&M #1 N. WALSINGHAM 2-15-VII PERMIT NO.:6256 INITIAL CLASS:DEV
OPERATOR :FRANCIS SAUL TARGET SYS:CLI CURRENT STAT.:DRY-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:1.2 KB ELEV:203.7
BOT:420.6 LOG :
ROTRY TOP: DRILLER:420.6
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830526
START :19830517
COMPTD:19830614
OFFCNF:19830714
WRKOVR:
ABNDND:19830615

**COORDINATES**

NORTH:1158.8
SOUTH:
EAST :178.0
WEST :
LAT :42 42 08
LONG :80 31 36

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:Y
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:69.0 - 420.6 NO. BOTTLES:187
TRAY NUMBERS :7784
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.2 | 202.50 |
| BOIS BLANC | 69.0 | 134.70 |
| BASS ISLANDS | 112.8 | 90.90 |
| G SHALE | 181.7 | 22.00 |
| F SHALE | 189.9 | 13.80 |
| E CARBONATE | 214.9 | -11.20 |
| C SHALE | 248.7 | -45.00 |
| B MARKER | 251.5 | -47.80 |
| A2 CARBONATE | 266.4 | -62.70 |
| A2 ANHYDRITE | 270.4 | -66.70 |
| A1 CARBONATE | 279.2 | -75.50 |
| A1 ANHYDRITE | 291.7 | -88.00 |
| GUELPH | 294.7 | -91.00 |
| ROCHESTER | 365.2 | -161.5 |
| THOROLD | 381.9 | -178.2 |
| GRIMSBY | 385.6 | -181.9 |
| CABOT HEAD | 390.8 | -187.1 |
| WHIRLPOOL | 416.4 | -212.7 |
| QUEENSTON | 419.1 | -215.4 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:NORFOLK TWP:N. WALSINGHAM BLOCK: TRACT:2 LOT:17 CON:VII

WELL NAME:F&M #4 N. WALSINGHAM 2-17-VII PERMIT NO.:6409 INITIAL CLASS:NPW
OPERATOR :SAUL, FRANCIS K. TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:1.3 KB ELEV:200.3
BOT:390.0 LOG :
ROTRY TOP: DRILLER:390.0
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19831130
START :19831115
COMPTD:19831227
OFFCNF:19841227
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:1214.8
SOUTH:
EAST :145.4
WEST :
LAT :42 42 28
LONG :80 30 51

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 10³m³/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:62.8 - 398.7 NO. BOTTLES:191
TRAY NUMBERS :8231
MISSNG INTERVAL:382.2-396.8

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (10³m³/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 375.8 | 377.6 | 0.034 | | N |
| 380.4 | 382.2 | 0.099 | | N |
| 378.6 | 380.4 | 0.088 | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 64.0 | | 18.3 | SUL | N | |
| 292.9 | | | BRA | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 273.0 | | 62.8 | SHO | | 62.8 |
| 219.0 | | 62.8 | BAR | | 62.8 |
| 178 | | 79.2 | CEM | | |
| 101.6 | | 372.5 | BHP | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.3 | 199.00 |
| LUCAS | 68.0 | 132.30 |
| AMHERSTBURG | 101.2 | 99.10 |
| BOIS BLANC | 122.5 | 77.80 |
| BASS ISLANDS | 156.9 | 43.40 |
| G SHALE | 173.7 | 26.60 |
| F SHALE | 180.9 | 19.40 |
| E CARBONATE | 204.5 | -4.20 |
| C SHALE | 238.8 | -38.50 |
| B MARKER | 253.8 | -53.50 |
| B ANHYDRITE | 262.4 | -62.10 |
| A2 CARBONATE | 268.5 | -68.20 |
| A2 ANHYDRITE | 278.3 | -78.00 |
| A1 CARBONATE | 281.0 | -80.70 |
| GUELPH | 285.9 | -85.60 |
| ROCHESTER | 355.1 | -154.8 |
| REYNALES | 370.6 | -170.3 |
| THOROLD | 375.2 | -174.9 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:NORFOLK TWP:NORTH WALSINGHAM BLOCK: TRACT:2 LOT:6 CON:VII

WELL NAME:F&M #3 N. WALSINGHAM 2-16-VII PERMIT NO.:6356 INITIAL CLASS:DEV
OPERATOR :FRANCIS SAUL TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:1.0 KB ELEV:205.7
BOT:394.7 LOG :
ROTRY TOP: DRILLER:394.7
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830920
START :19830912
COMPTD:19831007
OFFCNF:19831107
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:1073.4
SOUTH:
EAST :149.6
WEST :
LAT :42 42 15
LONG :80 31 12

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:72.2 - 294.4 NO. BOTTLES:176
TRAY NUMBERS :3735
MISSNG INTERVAL:

**GENERAL COMMENTS**

1. B EQUIVALENT 216.4

GEOLOGY BY:G.M. CARD

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 74.1 | | 18.3 | SUL | N | |
| 301.8 | | 6.1 | BRA | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 273 | 67.0 | 73.5 | SHO | | 73.5 |
| 219 | 35.7 | 79.6 | BAR | | |
| 114 | 14.1 | 380.1 | BHP | | |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.0 | 204.70 |
| HAMILTON | 72.0 | 133.70 |
| DUNDEE | 74.1 | 131.60 |
| LUCAS | 113.1 | 92.60 |
| BOIS BLANC | 138.1 | 67.60 |
| BASS ISLANDS | 140.8 | 64.90 |
| G SHALE | 142.6 | 63.10 |
| F SHALE | 146.6 | 59.10 |
| E CARBONATE | 150.6 | 55.10 |
| C SHALE | 164.0 | 41.70 |
| B MARKER | 184.4 | 21.30 |
| B ANHYDRITE | 225.6 | -19.90 |
| A2 CARBONATE | 232.9 | -27.20 |
| A2 ANHYDRITE | 237.4 | -31.70 |
| A1 CARBONATE | 244.1 | -38.40 |
| GUELPH | 255.1 | -49.40 |
| GOAT ISLAND | 268.5 | -62.80 |
| GASPORT | 277.1 | -71.40 |
| ROCHESTER | 289.6 | -83.90 |
| FOSSIL HILL | 307.5 | -101.8 |
| REYNALES | 298.7 | -93.00 |
| THOROLD | 325.8 | -120.1 |
| CABOT HEAD | 333.8 | -128.1 |
| MANITOULIN | 360.0 | -154.3 |
| WHIRLPOOL | 380.1 | -174.4 |
| QUEENSTON | 389.5 | -183.8 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:NORFOLK TWP:S. WALSINGHAM BLOCK: TRACT:4 LOT:3 CON:A

WELL NAME:EX. THOR. CON.4, S. WALSINGHAM 4-3-A PERMIT NO.:6129 INITIAL CLASS:DEV
OPERATOR :EXPLORER PETROLEUM CORPORATION TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT
CABLE TOP:
BOT:
ROTRY TOP:2.0
BOT:445.0
DRLG FLD :

DEPTHS.....
KB ELEV:201.4
LOG :445.6
DRILLER:445.0
DEEPEND:
PLUGBK :

**DATES**

PERMIT:19830311
START :19830519
COMPTD:19830521
OFFCNF:19830621
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:298.2
EAST :301.6
WEST :
LAT :42 55 42
LONG :80 32 34

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS:460 103m3/d PRESSURE:4600 kPa
OIL: m3/d
PRODUCING FORMATION:GRIMSBY
PRODUCING INTERVAL :426.1 - 427.0

**SAMPLES**

SAMPLE INTERVAL:122.0 - 442.0 NO. BOTTLES:102
TRAY NUMBERS :1902
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 425.2 | 427.9 | | | |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 178 | 25.3 | 108.8 | CEM | | 0 |
| 114 | 14.1 | 445.6 | CEM | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 81.7 | 439.5 | CNFD | SCHLUMBERGER |
| 108.2 | 446.5 | DLLM | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 2.0 | 199.40 |
| HAMILTON | 97.2 | 104.20 |
| LUCAS | 131.5 | 69.90 |
| AMHERSTBURG | 143.0 | 58.40 |
| BOIS BLANC | 152.1 | 49.30 |
| BASS ISLANDS | 188.7 | 12.70 |
| G SHALE | 218.1 | -16.70 |
| F SHALE | 224.6 | -23.20 |
| E CARBONATE | 252.8 | -51.40 |
| C SHALE | 287.1 | -85.70 |
| B MARKER | 297.2 | -95.80 |
| B ANHYDRITE | 310.0 | -108.6 |
| A2 CARBONATE | 316.1 | -114.7 |
| A1 CARBONATE | 326.6 | -125.2 |
| GUELPH | 331.2 | -129.8 |
| ROCHESTER | 397.8 | -196.4 |
| REYNALES | 419.3 | -217.9 |
| THOROLD | 422.5 | -221.1 |
| GRIMSBY | 424.3 | -222.9 |
| CABOT HEAD | 432.2 | -230.8 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:NORFOLK TWP:S. WALSINGHAM BLOCK: TRACT:7 LOT:6 CON:I

WELL NAME:EX. THOR. CON.10, S.WALSINGHAM 7-6-I PERMIT NO.:6128 INITIAL CLASS:DEV
OPERATOR :EXPLORER PETROLEUM CORPORATION TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:201.7
BOT: LOG :
ROTRY TOP:2.0 DRILLER:448.0
BOT:448.0 DEEPEND:
DRLG FLD : PLUGBK :435.0

**DATES**

PERMIT:19830311
START :19830522
COMPTD:19830525
OFFCNF:19830625
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:215.8
SOUTH:
EAST :262.0
WEST :
LAT :42 36 25
LONG :80 31 38

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS:340 103m3/d PRESSURE:4300 kPa
OIL: m3/d
PRODUCING FORMATION:GUELPH
PRODUCING INTERVAL :419.7 - 429.6

**SAMPLES**

SAMPLE INTERVAL:19.0 - 448.1 NO. BOTTLES:130
TRAY NUMBERS :5464
MISSNG INTERVAL:

**GENERAL COMMENTS**

**GEOLOGY BY:DEBRA K. PARKER**

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (kg/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS (bags) | RECOV (m) |
|---|---|---|---|---|---|
| 178 | 25.3 | 107.5 | CEM | | 0 |
| 114 | 14.1 | 442.9 | CEM | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| | | CNFD | SCHLUMBERGER |
| | | LATL | SCHLUMBERGER |
| | | CMPL | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|
| 419.7 | 432.8 | | COM | | Y |

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 2.0 | 199.70 |
| LUCAS | 143.0 | 58.70 |
| AMHERSTBURG | 161.0 | 40.70 |
| BOIS BLANC | 168.0 | 33.70 |
| BASS ISLANDS | 195.0 | 6.70 |
| G SHALE | 213.0 | -11.30 |
| F SHALE | 219.0 | -17.30 |
| E CARBONATE | 244.0 | -42.30 |
| C SHALE | 280.0 | -78.30 |
| B MARKER | 292.0 | -90.30 |
| B ANHYDRITE | 295.0 | -93.30 |
| A2 CARBONATE | 298.0 | -96.30 |
| A2 ANHYDRITE | 308.0 | -106.3 |
| A1 CARBONATE | 311.0 | -109.3 |
| A1 ANHYDRITE | 326.0 | -124.3 |
| GUELPH | 329.0 | -127.3 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:NORFOLK TWP:WALSINGHAM BLOCK: TRACT:4 LOT:15 CON:VII

WELL NAME:F&M #2 N. WALSINGHAM 4-15-VII PERMIT NO.:6279 INITIAL CLASS:DEV
OPERATOR :FRANCIS K. SAUL TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE :CAB DEPTHS.....
CABLE TOP:1.0 KB ELEV:203.8
BOT:419.4 LOG :
ROTRY TOP: DRILLER:419.4
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830704
START :19830622
COMPTD:19830721
O.FCNF:19830821
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:808.9
SOUTH:
EAST :445.8
WEST :
LAT :42 42 04
LONG :80 31 17

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:67.8 - 419.4 NO. BOTTLES:174
TRAY NUMBERS :6793
MISSNG INTERVAL:

**GENERAL COMMENTS**

GEOLOGY BY:G.M. CARD

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|
| 388.6 | | SHOW | | N |

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|
| 389.2 | | SHOW | | N |

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|
| 71.3 | | 22.9 | SUL | N | |
| 299.6 | | 6.7 | BRA | N | |

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|
| 273 | 60.3 | 67.8 | SHO | | 67.8 |
| 218 | 35.7 | 76.2 | BAR | | 0 |
| 114.3 | 14.1 | 380.7 | BHP | | 0 |

**LOGGING RECORD**

LOGGED..... LOG
TOP BOT TYPE LOGGING COMPANY

**CORING RECORD**

CORED..... CORE CORE NO.
TOP BOT COND LCTN NO. BOXES ANAL

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 1.0 | 202.80 |
| BASS ISLANDS | 110.3 | 93.50 |
| G SHALE | 175.3 | 28.50 |
| F SHALE | 187.5 | 16.30 |
| E CARBONATE | 210.3 | -6.50 |
| C SHALE | 239.6 | -35.80 |
| B MARKER | 245.1 | -41.30 |
| B ANHYDRITE | 261.8 | -58.00 |
| A2 CARBONATE | 274.3 | -70.50 |
| A1 CARBONATE | 274.3 | -70.50 |
| A1 ANHYDRITE | 283.5 | -79.70 |
| GUELPH | 295.4 | -91.60 |
| GOAT ISLAND | 307.8 | -104.0 |
| GASPORT | 342.0 | -138.2 |
| DECEW | 365.8 | -162.0 |
| ROCHESTER | 370.3 | -166.5 |
| THOROLD | 380.7 | -176.9 |
| GRIMSBY | 389.8 | -186.0 |
| CABOT HEAD | 393.2 | -189.4 |
| WHIRLPOOL | 414.5 | -210.7 |
| QUEENSTON | 417.9 | -214.1 |

**DST RECORDS**

DST INTERVAL
TOP BOT FORMATION

COUNTY:OXFORD TWP:BLANDFORD BLOCK: TRACT: LOT:2 CON:VI

WELL NAME:INNERKIP #3 BLANDFORD 2-VI PERMIT NO.:6091 INITIAL CLASS:DEV
OPERATOR :NITH RIVER PETROLEUM LTD. TARGET SYS:CAM CURRENT STAT.:GS

**DRILLING**

CONTRACTOR:
RIG TYPE :
CABLE TOP:0.5
BOT:880.5
ROTRY TOP:
BOT:
DRLG FLD :

DEPTHS.....
KB ELEV:291.7
LOG :
DRILLER:880.5
DEEPEND:
PLUGBK :

**DATES**

PERMIT:19830101
START :
COMPTD:19831206
OFFCNF:19840106
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:389.0
SOUTH:
EAST :
WEST :301.0
LAT :
LONG :

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:N
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:36.0 - 880.6 NO. BOTTLES:284
TRAY NUMBERS :6490-91
MISSNG INTERVAL:

**GENERAL COMMENTS**

GEOLOGY BY:G.M. CARD

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT (bags) | CAS RECOV (m) |
|---|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.5 | 291.20 |
| A1 ANHYDRITE | 40.0 | 251.70 |
| GUELPH | 82.0 | 209.70 |
| GOAT ISLAND | 97.0 | 194.70 |
| GASPORT | 112.0 | 179.70 |
| IRONDEQUOIT | 146.0 | 145.70 |
| REYNALES | 238.0 | 53.70 |
| CABOT HEAD | 259.0 | 32.70 |
| MANITOULIN | 263.3 | 28.40 |
| QUEENSTON | 280.0 | 11.70 |
| COBOURG | 690.0 | -398.3 |
| KIRKFIELD | 795.0 | -503.3 |
| COBOCONK | 841.0 | -549.3 |
| SHADOW LAKE | 867.2 | -575.5 |
| CAMBRIAN | 876.0 | -584.3 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:OXFORD TWP:BLANDFORD BLOCK: TRACT:5-6 LOT:6 CON:VII

WELL NAME:AMER BLAND 3A BLANDFORD 5-6-6-VII PERMIT NO.:6106 INITIAL CLASS:DEV
OPERATOR :AMERACRUDE INTERNATIONAL INC. TARGET SYS:PRE CURRENT STAT.:OS-ABD

**DRILLING**

CONTRACTOR:
RIG TYPE : DEPTHS.....
CABLE TOP: KB ELEV:
BOT: LOG :
ROTRY TOP: DRILLER:1204.0
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19830207
START :
COMPTD:19830415
OFFCNF:
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:365.8
SOUTH:
EAST :301.8
WEST :
LAT :43 13 15
LONG :80 40 50

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:N
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL: - NO. BOTTLES:
TRAY NUMBERS :
MISSNG INTERVAL:

**GENERAL COMMENTS**

WELL DEEPENED FROM 949.1M TO 1204.0M

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL TOP | BOT | FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN INTRVL TOP | BOT | FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN INTRVL TOP | BOT | STATIC LEVEL | WATER TYPE | RESIS ANAL |
|---|---|---|---|---|

**CORING RECORD**

| CORED..... TOP | BOT | CORE COND | CORE LCTN | CORE NO. NO. BOXES | ANAL |
|---|---|---|---|---|---|

COUNTY:PEEL TWP:TORONTO BLOCK: TRACT: LOT:33 CON:III

WELL NAME:OGS 83-2 PEEL 33-III SDS PERMIT NO.:6102 INITIAL CLASS:OTH
OPERATOR :ONTARIO GEOLOGICAL SURVEY TARGET SYS:PRE CURRENT STAT.:OBSR

**DRILLING**

CONTRACTOR:
RIG TYPE :ROT DEPTHS.....
CABLE TOP: KB ELEV:95.3
BOT: LOG :495.3
ROTRY TOP:0.9 DRILLER:495.3
BOT:495.3 DEEPEND:
DRLG FLD :SALT WATER PLUGBK :

**DATES**

PERMIT:19830201
START :19830210
COMPTD:19830221
OFFCNF:19840221
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:1156.5
SOUTH:
EAST :180.7
WEST :
LAT :43 29 58
LONG :79 37 50

**RECORDS ON FILE**

LOC PLAT:Y
FORM 107:Y
FORM 110:N
DST RPTS:N
TAS RPTS:N
BPT RPTS:N

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL: - NO. BOTTLES:
TRAY NUMBERS :
MISSNG INTERVAL:

**GENERAL COMMENTS**

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN TOP | PRODN BOT | INTRVL FLOW (103m3/d) | SIP (kPa) | ANAL |
|---|---|---|---|---|

**INITIAL OIL RECORD**

| PRODN TOP | PRODN BOT | INTRVL FLOW (m3/d) | DENSITY (ka/m3) | ANAL |
|---|---|---|---|---|

**INITIAL WATER RECORD**

| PRODN TOP | PRODN BOT | INTRVL STATIC LEVEL | WATER TYPE | ANAL | RESIS |
|---|---|---|---|---|---|

**CASING AND TUBING RECORD**

| DIAM (mm) | WEIGHT (kg/m) | SETTING..... DEPTH | METHOD | AMT CMT CAS RECOV (bags) | (m) |
|---|---|---|---|---|---|
| 146.0 | | 2.1 | | | 2.1 |
| 88.9 | | 19.8 | CEM | | 0 |

**LOGGING RECORD**

| LOGGED..... TOP | BOT | LOG TYPE | LOGGING COMPANY |
|---|---|---|---|
| 31.0 | 495.0 | SONL | SCHLUMBERGER |
| 18.3 | 495.0 | CNFD | SCHLUMBERGER |
| 23.0 | 491.5 | DIL | SCHLUMBERGER |
| 25.5 | 491.5 | CBLK | SCHLUMBERGER |

**CORING RECORD**

| CORED..... TOP | BOT | COND | CORE LCTN | CORE NO. BOXES | ANAL |
|---|---|---|---|---|---|
| 2.1 | 495.3 | | COM | | |

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.9 | 94.40 |
| COBOURG | 275.4 | -180.1 |
| VERULAM | 320.0 | -224.7 |
| KIRKFIELD | 378.0 | -282.7 |
| COBOCONK | 433.0 | -337.7 |
| GULL RIVER | 446.3 | -351.0 |
| SHADOW LAKE | 472.7 | -377.4 |
| PRECAMBRIAN | 482.4 | -387.1 |

**DST RECORDS**

| DST INTERVAL TOP | BOT | FORMATION |
|---|---|---|

COUNTY:WENTWORTH TWP:BINBROOK BLOCK: TRACT: LOT:18 CON:VII

WELL NAME:LOWDEN GAS WELL #2 BINBROOK 18-VII PERMIT NO.:6060 INITIAL CLASS:DEV
OPERATOR : TARGET SYS:CLI CURRENT STAT.:GP

**DRILLING**

CONTRACTOR:
RIG TYPE : DEPTHS.....
CABLE TOP: KB ELEV:206.4
BOT: LOG :
ROTRY TOP: DRILLER:152.4
BOT: DEEPEND:
DRLG FLD : PLUGBK :

**DATES**

PERMIT:19821119
START :
COMPTD:19830129
OFFCNF:
WRKOVR:
ABNDND:

**COORDINATES**

NORTH:
SOUTH:386.0
EAST :
WEST :255.4
LAT :43 06 26
LONG :79 50 26

**RECORDS ON FILE**

LOC PLAT:
FORM 107:
FORM 110:
DST RPTS:
TAS RPTS:
BPT RPTS:

**COMPLETION DATA**

GAS: 103m3/d PRESSURE: kPa
OIL: m3/d
PRODUCING FORMATION:
PRODUCING INTERVAL : -

**SAMPLES**

SAMPLE INTERVAL:19.0 - 152.4 NO. BOTTLES:44
TRAY NUMBERS :2572
MISSNG INTERVAL:

**GENERAL COMMENTS**

GEOLOGY BY:DEBRA K. PARKER

**INITIAL GAS RECORD**

| PRODN INTRVL | | FLOW | SIP | |
|---|---|---|---|---|
| TOP | BOT | (103m3/d) | (kPa) | ANAL |

**INITIAL OIL RECORD**

| PRODN INTRVL | | FLOW | DENSITY | |
|---|---|---|---|---|
| TOP | BOT | (m3/d) | (ka/m3) | ANAL |

**INITIAL WATER RECORD**

| PRODN INTRVL | | STATIC | WATER | | RESIS |
|---|---|---|---|---|---|
| TOP | BOT | LEVEL | TYPE | ANAL | |

**CASING AND TUBING RECORD**

| DIAM | WEIGHT | SETTING..... | | AMT CMT | CAS RECOV |
|---|---|---|---|---|---|
| (mm) | (kg/m) | DEPTH | METHOD | (bags) | (m) |

**LOGGING RECORD**

| LOGGED..... | | LOG | |
|---|---|---|---|
| TOP | BOT | TYPE | LOGGING COMPANY |

**CORING RECORD**

| CORED..... | | CORE | CORE NO. | |
|---|---|---|---|---|
| TOP | BOT | COND | LCTN NO. | BOXES ANAL |

**GEOLOGY**

| FORMATION | ....DEPTH.... TOP | ELEV |
|---|---|---|
| DRIFT | 0.5 | 205.90 |
| ROCHESTER | 88.0 | 118.40 |
| REYNALES | 99.0 | 107.40 |
| THOROLD | 103.0 | 103.40 |
| GRIMSBY | 109.0 | 97.40 |
| CABOT HEAD | 117.0 | 89.40 |
| WHIRLPOOL | 134.0 | 72.40 |
| QUEENSTON | 137.0 | 69.40 |

**DST RECORDS**

| DST INTERVAL | | |
|---|---|---|
| TOP | BOT | FORMATION |

# Appendix VI. Index of Available Formation Water Analyses from Wells Drilled in Ontario

Compiled by Peter S. Dollar

## APPENDIX VI. WATER ANALYSIS SUMMARY.

| WELL NAME | LOT | CONC | N-S | E-W | FORMATION | DEPTH | SAMPLE FROM | DATE | NA | CA | MG | CL | HCO3 | SO4 | TDS | PH | DENSITY | RESIST |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **** COUNTY** | | | | | | | | | | | | | | | | | | |
| *** TOWNSHIP** | | | | | | | | | | | | | | | | | | |
| CONSUMERS 73 | 0 | | | | WHIRLPOOL | 265.2 | MIDDLE | 04/17/74 | 42118 | 18400 | 3523 | 107500 | 10 | 678 | 172229 | 4.9 | | |
| CONSUMERS 115 | 0 | | | | WHIRLPOOL | 219.2 | MIDDLE | 04/17/74 | 7728 | 3600 | 753 | 20400 | 0 | 128 | 32609 | 4.3 | | |
| CONSUMERS 481 | 0 | | | | WHIRLPOOL | 275.2 | MIDDLE | 04/17/74 | 2072 | 1328 | 301 | 5480 | 4 | 1300 | 10485 | 4.5 | | |
| ATLAS LE 3 | 0 | | | | SILURIAN | | DST 1 WELL HEAD | 09/01/67 | 5875 | 2600 | 768 | 0 | 0 | 950 | 10193 | 7.2 | | |
| **** COUNTY BRANT** | | | | | | | | | | | | | | | | | | |
| *** TOWNSHIP BRANTFORD** | | | | | | | | | | | | | | | | | | |
| IMP. BRANTFORD 8-7-I | 7 | I | 91.4 N | 128W | DRIFT | 56.4 | | 10/02/61 | 0 | 496 | 87 | 42 | 112 | 12 | 749 | 7.8 | 1.0015 | 4.1000 |
| IMP. BRANTFORD 8-7-I | 7 | I | 91.4N | 128.0W | GUELPH | 113.4 | | 10/04/61 | 0 | 648 | 301 | 1384 | 244 | 44 | 2621 | 7.9 | 1.0035 | 1.5000 |
| HERCULES BRANTFORD 4-III | 4 | IIIE | 219.5N | 615.7E | CAMBRIAN | | | 02/01/65 | 41000 | 48000 | 4330 | 139500 | 0 | 784 | 233614 | | | |
| HERCULES BRANTFORD 4-III | 4 | IIIE | 219.5N | 615.7E | CAMBRIAN | | | 02/01/65 | 72000 | 69200 | 1270 | 166500 | 0 | 355 | 309325 | | | |
| HERCULES BRANT 4-II | 4 | II | 185.9S | 228.6W | | | | 04/22/65 | 52000 | 51200 | 6490 | 152500 | 0 | 480 | 262670 | | | |
| HERCULES BRANT 4-II | 4 | II | 185.9S | 228.6W | | | | 04/20/65 | 26000 | 33600 | 3120 | 109000 | 0 | 784 | 172504 | | | |
| IMP. BRANTFORD 8-7-1 | 7 | I | | | | 859.8 | | 11/02/61 | 0 | 480 | 170 | 210 | 156 | 7 | 1023 | 7.8 | 1.0000 | 1.7000 |
| BP TRIAD 41-II | 41 | II | 152.4N | 152.4W | | | | 01/01/65 | 45000 | 56800 | 6720 | 0 | 0 | 146 | 108666 | | 1.2210 | |
| *** TOWNSHIP BURFORD** | | | | | | | | | | | | | | | | | | |
| IMP. GOBLES AREA OFFICE | 0 | | | | DRIFT | | WATER WELL | 02/12/63 | 0 | 94 | 12 | 5 | 94 | 0 | 205 | 7.8 | 1.0001 | |
| WELL 11 | 13 | I | | | DRIFT | | WATER WELL | 09/04/62 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 7.4 | | |
| KEWANEE GOBLES II | 15 | I | 140.2N | 121.9E | DRIFT | | | 09/27/64 | 37 | 543 | 64 | 14 | 200 | 1457 | 2315 | 7.4 | 1.0020 | 4.6200 |
| KEWANEE GOBLES II | 15 | I | 140.2N | 121.9E | DRIFT | | WELL HEAD | 09/10/64 | 64 | 566 | 60 | 227 | 0 | 1420 | 2337 | 3.3 | 1.0050 | 3.7500 |
| BURFORD IMP. BECKER 1-19-I | 19 | I | 148.0S | 201.2W | DRIFT | 3.3 | | 02/14/62 | 0 | 155 | 17 | 156 | 307 | 0 | 635 | 8.3 | 1.0010 | 7.1000 |
| IMP. BURFORD 7-21-II | 21 | II | 165.8N | 450.2W | DRIFT | 15.2 | | 03/01/61 | 0 | 200 | 38 | 89 | 154 | 40 | 521 | 7.2 | 1.0008 | 7.8000 |
| IMP. BURFORD 7-21-II | 21 | II | 165.8N | 450.2W | DRIFT | 7.3 | | 03/01/61 | 0 | 558 | 79 | 71 | 210 | 48 | 966 | 7.3 | 1.0020 | 3.8000 |
| IMP. BURFORD 3-24-II | 24 | II | 459.0S | 114.0E | DRIFT | 38.1 | | 06/23/61 | 0 | 464 | 49 | 682 | 142 | 20 | 1357 | 8.0 | 1.0030 | 2.8000 |
| IMP. BURFORD 1-22-I | 22 | I | 165.2S | 117.0W | SALINA | 93.3 | | 10/15/61 | 0 | 592 | 243 | 391 | 195 | 60 | 1481 | 7.9 | 1.0045 | 1.8000 |
| IMP. BURFORD 1-22-I | 22 | I | 165.2S | 117.0W | SALINA | 101.2 | | 10/15/61 | 0 | 460 | 182 | 92 | 220 | 80 | 1034 | 7.9 | 1.0025 | 3.2000 |
| IMP. BURFORD 3-24-II | 24 | II | 459.0S | 114.1E | SALINA | 75.3 | | 06/24/61 | 0 | 360 | 267 | 175 | 181 | 40 | 1023 | 7.9 | 1.0039 | 2.4000 |
| IMP. BRANTFORD 7-21-II | 21 | II | 165.8N | 450.2W | GUELPH | 146.3 | | 03/23/61 | 11199 | 4400 | 1227 | 28223 | 181 | 44 | 45274 | 7.5 | 1.0330 | 0.1600 |
| IMP. BRANTFORD 7-21-II | 21 | II | | | GUELPH | 101.2 | | 03/01/61 | 19481 | 6560 | 1847 | 41535 | 142 | 42 | 69607 | 7.7 | 1.0489 | 0.1200 |
| IMP. BURFORD 1-22-I | 22 | I | 165.2S | 117.0W | GUELPH | 154.2 | | 10/15/61 | 945 | 820 | 450 | 4118 | 102 | 60 | 6495 | 7.8 | 1.0085 | 0.5800 |
| FEINBERG BURFORD W-63-23 | 7 | IX | 182.9N | 152.4W | CAMBRIAN | 886.7 | BAILER | 09/16/63 | 8510 | 11400 | 1215 | 36565 | 124 | 309 | 58123 | 6.6 | 1.0453 | 0.1090 |
| KEWANEE GOBLES 20 | 16 | I | 173.7N | 147.8E | CAMBRIAN | | | 10/07/64 | 49958 | 62623 | 7484 | 209600 | 24 | 104 | 329793 | 4.9 | 1.2250 | 0.0530 |
| KEWANEE GOBLES 20 | 16 | I | 173.7N | 147.8E | CAMBRIAN | | | 09/14/64 | 55685 | 65640 | 6015 | 220800 | 0 | 90 | 348230 | 0.2 | 1.2370 | 0.0500 |
| COPPINGER BURFORD 20-XI-1 | 20 | XI | 203.0N | 184.4E | CAMBRIAN | 924.8 | BAILER | 02/17/64 | 43378 | 51000 | 3402 | 167028 | 49 | 103 | 264960 | 6.4 | 1.1830 | 0.0470 |
| BURFORD 5-22-I | 22 | I | 540.4N | 148.1W | CAMBRIAN | | | 08/09/62 | 26200 | 58500 | 3710 | 162500 | 60 | 698 | 251668 | 4.0 | 1.2300 | 0.0400 |
| *** TOWNSHIP ONONDAGA** | | | | | | | | | | | | | | | | | | |
| CAN. ESSEX | 21 | I | 603.5N | 100.6E | CAMBRIAN | 713.2 | SWAB | 01/19/62 | 36432 | 63200 | 5346 | 183538 | 63 | 0 | 288579 | 7.3 | 1.2115 | 0.0520 |
| CAN. ESSEX 5 | 22 | II | 853.4S | 152.4W | CAMBRIAN | 789.4 | | 12/15/62 | 21873 | 17884 | 4175 | 76929 | 78 | 789 | 121728 | 6.2 | 1.0909 | 0.0800 |
| **** COUNTY BRUCE** | | | | | | | | | | | | | | | | | | |
| *** TOWNSHIP BRUCE** | | | | | | | | | | | | | | | | | | |
| TEXACO 6 | 0 | IV | 307.5N | 204.2W | CAMBRIAN | 872.6 | | | 0 | 34000 | 6000 | 0 | 0 | 270 | 40270 | 6.5 | 1.1570 | |
| TEXACO 6 | 0 | IV | 307.5N | 204.2W | CAMBRIAN | 872.6 | | 01/30/69 | 24267 | 31376 | 4707 | 106352 | 39 | 385 | 167126 | 5.0 | 1.1040 | 0.0600 |

## APPENDIX VI. WATER ANALYSIS SUMMARY.

### ** COUNTY COCHRANE

### * TOWNSHIP

| WELL NAME | LOT | CONC | N-S | E-W | FORMATION | DEPTH | SAMPLE FROM | DATE | NA | CA | MG | CL | HCO3 | SO4 | TDS | PH | DENSITY | RESIST |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AQUIT SOGEPET ET AL HAMBLY | 0 | | | | DEVONIAN | 277.7 | DST 1 TOP | 02/28/73 | 200 | 118 | 0 | 47 | 590 | 17 | 972 | 9.3 | 1.0037 | 6.7000 |
| CONSUMERS ET AL ONAKWAHEGAN 2 | 0 | | | | | 207.0 | TOP | 03/01/72 | 3020 | 2400 | 1170 | 10800 | 48.8 | 2630 | 20068.8 | 7.0 | | |
| CONSUMERS ET AL ONAKWAHEGAN 2 | 0 | | | | | 111.6 | DRILLING SAMPLE | 02/25/72 | 511 | 402 | 66 | 258 | 1183 | 1012 | 3432 | 8.1 | 1.0050 | 2.2800 |
| CONSUMERS ET AL ONAKWAHEGAN 2 | 0 | | | | | 111.6 | DST 2 MIDDLE | 02/25/72 | 667 | 441 | 239 | 846 | 937 | 1507 | 4637 | 7.9 | 1.0057 | 1.8100 |
| CONSUMERS ET AL ONAKWAHEGAN 2 | 0 | | | | | 56.4 | MIDDLE | | 845 | 360 | 146 | 500 | 0 | 2550 | 4401 | 8.5 | | |
| CONSUMERS ET AL KWATA 1 | 0 | | | | | 260.3 | DST 1 TOP FLUID | 03/10/72 | 5748 | 6614 | 868 | 21712 | 322 | 1617 | 36881 | 7.3 | 1.0251 | 0.2160 |
| CONSUMERS ET AL ONAKWAHEGAN 2 | 0 | | | | | 211.5 | DST 10 TOP | 03/03/72 | 2413 | 1354 | 422 | 5226 | 776 | 2266 | 12457 | 7.1 | 1.0122 | 0.6190 |
| CONSUMERS ET AL ONAKWAHEGAN 2 | 0 | | | | | 189.0 | TOOL | 02/29/72 | 2540 | 1600 | 653 | 6000 | 3620 | 91 | 14504 | 8.0 | | |
| CONSUMERS ET AL ONAKWAHEGAN 2 | 0 | | | | | 97.5 | DST 3 TOP FLUID | 02/26/72 | 1074 | 421 | 8 | 854 | 0 | 638 | 29951 | 1.9 | 1.0020 | 1.3200 |
| CONSUMERS ET AL ONAKWAHEGAN 2 | 0 | | | | | 189.0 | MIDDLE | | 4760 | 1440 | 584 | 720 | 115 | 3800 | 11419 | 8.1 | | |
| CONSUMERS ET AL ONAKWAHEGAN 2 | 0 | | | | | 59.4 | DST 1 TOP FLUID | 02/24/72 | 1332 | 449 | 0 | 442 | 1061 | 2387 | 5671 | 8.5 | 1.0083 | 1.5000 |
| CONSUMERS ET AL ONAKWAHEGAN 2 | 0 | | | | | 207.0 | MIDDLE | 03/11/72 | 3160 | 3040 | 1070 | 12000 | 26 | 1980 | 21276 | 7.0 | | |
| CONSUMERS ET AL ONAKWAHEGAN 2 | 0 | | | | | 230.1 | DST 9 TOP | 03/02/72 | 2574 | 1594 | 643 | 6808 | 610 | 2035 | 14264 | 7.1 | 1.0112 | 0.5290 |
| CONSUMERS ET AL KWATA 1 | 0 | | | | | 260.3 | DST 1 TEST | 03/10/72 | 1076 | 1176 | 113 | 589 | 1688 | 3388 | 8030 | 7.9 | 1.0110 | 1.0100 |
| CONSUMERS ET AL ONAKWAHEGAN 2 | 0 | | | | | 111.6 | DST 2 TOP TOOL | 02/25/72 | 596 | 430 | 0 | 1045 | 434 | 396 | 2901 | 9.5 | 1.0044 | 1.8600 |
| CONSUMERS ET AL ONAKWAHEGAN 2 | 0 | | | | | 56.4 | TOOL | | 0 | 400 | 146 | 800 | 0 | 210 | 1556 | 8.4 | | |
| CONSUMERS ET AL ONAKWAHEGAN 2 | 0 | | | | | 203.6 | TOOL | 03/07/72 | 4170 | 2240 | 1170 | 11200 | 74 | 3620 | 22474 | 8.2 | | |
| CONSUMERS ET AL ONAKWAHEGAN 2 | 0 | | | | | 211.5 | DST 10 TOOL | 03/03/72 | 3896 | 2383 | 629 | 10746 | 303 | 1540 | 19497 | 6.8 | 1.0153 | 0.3800 |
| CONSUMERS ET AL ONAKWAHEGAN 2 | 0 | | | | | 59.4 | DST 1 TOP TOOL | 02/24/72 | 1532 | 294 | 0 | 294 | 1183 | 2519 | 5822 | 8.6 | 1.0044 | 1.4800 |
| CONSUMERS ET AL ONAKWAHEGAN 2 | 0 | | | | | 230.1 | DST 9 TOOL | 03/02/72 | 4529 | 3605 | 1182 | 15677 | 200 | 1375 | 26568 | 6.9 | 1.0197 | 0.2830 |
| CONSUMERS ET AL ONAKWAHEGAN 2 | 0 | | | | | 203.6 | TOP | 03/11/72 | 2610 | 1760 | 288 | 6000 | 0 | 3050 | 13708 | 7.9 | | |
| CONSUMERS ET AL ONAKWAHEGAN 2 | 0 | | | | | 111.6 | DST 2 TOP FLUID | 02/25/72 | 927 | 557 | 5 | 883 | 915 | 1375 | 4662 | 8.2 | 1.0057 | 1.8700 |
| CONSUMERS ET AL KWATA 1 | 0 | | | | | 260.3 | DST 1 MIDDLE | 03/10/72 | 6677 | 5299 | 2111 | 24656 | 195 | 1430 | 40368 | 7.1 | 1.0295 | 0.2000 |
| CONSUMERS ET AL ONAKWAHEGAN 2 | 0 | | | | | 97.5 | DST 3 TOP TOOL | 02/27/72 | 833 | 387 | 160 | 1067 | 913 | 1133 | 4493 | 7.9 | 1.0045 | 1.7600 |
| CONSUMERS ET AL ONAKWAHEGAN 2 | 0 | | | | | 230.1 | DST 9 (CIRC) | 03/02/72 | 550 | 1006 | 211 | 1362 | 1322 | 1507 | 5958 | 7.5 | 1.0093 | 1.1500 |
| CONSUMERS ET AL ONAKWAHEGAN 2 | 0 | | | | | 211.5 | DST 10 MIDDLE | 03/03/72 | 2831 | 1663 | 540 | 7066 | 556 | 2024 | 14680 | 6.8 | 1.0127 | 0.5120 |
| CONSUMERS ET AL ONAKWAHEGAN 2 | 0 | | | | | 230.1 | DST 9 MIDDLE | 03/02/72 | 3968 | 4680 | 258 | 13984 | 229 | 1397 | 24516 | 7.2 | 1.0181 | 0.3230 |
| CONSUMERS ET AL ONAKWAHEGAN 2 | 0 | | | | | 56.4 | TOP FLUID | | 841 | 320 | 170 | 500 | 170 | 2340 | 4341 | 8.4 | | |
| CONSUMERS ET AL ONAKWAHEGAN 2 | 0 | | | | | 97.5 | DST 3 MIDDLE | 02/26/72 | 773 | 418 | 127 | 662 | 976 | 1452 | 4408 | 8.0 | 1.0036 | 1.8400 |
| CONSUMERS ET AL ONAKWAHEGAN 2 | 0 | | | | | 189.0 | TOOL | 02/29/72 | 2190 | 1440 | 584 | 4400 | 218 | 2140 | 10972 | 8.1 | | |
| CONSUMERS ET AL ONAKWAHEGAN 2 | 0 | | | | | 59.4 | DST 1 MIDDLE | 02/24/72 | 722 | 967 | 0 | 368 | 2098 | 1408 | 5563 | 9.2 | 1.0036 | 1.4500 |

## APPENDIX VI. WATER ANALYSIS SUMMARY.

| WELL NAME | LOT | CONC | N-S | E-W | FORMATION | DEPTH | SAMPLE FROM | DATE | NA | CA | MG | CL | HCO3 | SO4 | TDS | PH | DENSITY | RESIST |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *** TOWNSHIP ARDAGH** | | | | | | | | | | | | | | | | | | |
| CONSUMERS ET AL ARDAGH 1(85506 | 0 | | | | | 103.9 | DST 2 MUD TANK | 02/16/72 | 320 | 483 | 0 | 15 | 37 | 1760 | 2615 | 8.9 | 1.0027 | 3.0800 |
| CONSUMERS ET AL ARDAGH 1(85506 | 0 | | | | | 161.5 | DST 3 TOP TOOL | 02/17/72 | 354 | 498 | 0 | 162 | 61 | 1628 | 2703 | 9.9 | 1.0018 | 3.1100 |
| CONSUMERS ET AL ARDAGH 1(85506 | 0 | | | | | 161.5 | DST 3 TOP TOOL | 02/17/72 | 225 | 568 | 0 | 5 | 15 | 1810 | 2623 | 7.7 | | |
| CONSUMERS ET AL ARDAGH 1(85506 | 0 | | | | | 103.9 | DST 2 82M | 02/16/72 | 302 | 520 | 0 | 20 | 10 | 1850 | 2702 | 8.3 | | 3.1700 |
| CONSUMERS ET AL ARDAGH 1(85506 | 0 | | | | | 182.9 | DST 1 30M TOP | 02/14/72 | 538 | 545 | 0 | 236 | 15 | 2024 | 3358 | 9.6 | 1.0027 | 2.5300 |
| CONSUMERS ET AL ARDAGH 1(85506 | 0 | | | | | 103.9 | DST 2 MUD TANK | 02/16/72 | 281 | 540 | 0 | 10 | 10 | 1850 | 2691 | 8.4 | | |
| CONSUMERS ET AL ARDAGH 1(85506 | 0 | | | | | 103.9 | DST 2 TOP TOOL | 02/16/72 | 276 | 540 | 0 | 10 | 10 | 1850 | 2686 | 8.8 | | 3.0300 |
| CONSUMERS ET AL ARDAGH 1(85506 | 0 | | | | | 182.9 | DST 1 MIDDLE | 02/14/72 | 639 | 503 | 0 | 405 | 0 | 1716 | 32631 | 1.2 | 1.0026 | 2.5300 |
| CONSUMERS ET AL ARDAGH 1(85506 | 0 | | | | | 182.9 | DST 1 TOP 30M | 02/14/72 | 455 | 500 | 0 | 210 | 10 | 1850 | 3025 | 8.5 | | |
| CONSUMERS ET AL ARDAGH 1(85506 | 0 | | | | | 182.9 | DST 1 MIDDLE | 02/14/72 | 573 | 490 | 0 | 370 | 0 | 1850 | 32831 | 0.3 | 1.0060 | |
| CONSUMERS ET AL ARDAGH 1(85506 | 0 | | | | | 182.9 | DST 1 TOP TOOL | 02/14/72 | 627 | 680 | 0 | 790 | 10 | 1850 | 3957 | 8.2 | 1.0050 | |
| CONSUMERS ET AL ARDAGH 1(85506 | 0 | | | | | 161.5 | DST 3 MUD TANK | 02/17/72 | 191 | 528 | 0 | 5 | 20 | 1640 | 2384 | 7.7 | | |
| CONSUMERS ET AL ARDAGH 1(85506 | 0 | | | | | 161.5 | DST 3 MUD TANK | 02/17/72 | 317 | 464 | 0 | 118 | 0 | 1518 | 2417 | 9.9 | 1.0022 | 3.3600 |
| CONSUMERS ET AL ARDAGH 1(85506 | 0 | | | | | 182.9 | DST 1 TOP TOOL | 02/14/72 | 644 | 619 | 6 | 824 | 39 | 1507 | 36391 | 1.2 | 1.0041 | 2.0700 |
| *** TOWNSHIP GREER** | | | | | | | | | | | | | | | | | | |
| CONSUMERS ET AL GREER 1(85500) | 0 | | | | | | SOURCE SAMPLE | 04/27/72 | 2 | 14 | 2 | 4 | 54 | 0 | 76 | 7.1 | 1.0001 | |
| CONSUMERS ET AL GREER 1(85500) | 0 | | | | | | DST 4 MUD TANK | 02/04/72 | 225 | 5 | 1 | 5 | 68 | 410 | 714 | 9.4 | 0.9980 | |
| CONSUMERS ET AL GREER 1(85500) | 0 | | | | | | DST 4 MIDDLE | 02/04/72 | 200 | 5 | 0 | 5 | 88 | 250 | 548 | 8.8 | 0.9980 | |
| CONSUMERS ET AL GREER 1(85500) | 0 | | | | | | DST 3 BOTTOM | 02/04/72 | 170 | 2 | 1 | 5 | 63 | 308 | 549 | 8.5 | 0.9970 | |
| CONSUMERS ET AL GREER 1(85500) | 0 | | | | | 182.9 | DST 3 TOP | 02/04/72 | 207 | 3 | 1 | 5 | 73 | 375 | 664 | 8.9 | 0.9980 | |
| CONSUMERS ET AL GREER 1(85500) | 0 | | | | | 182.9 | DST 3 TREATER | 02/03/72 | 216 | 2 | 2 | 5 | 112 | 350 | 687 | 9.4 | 0.9990 | |
| CONSUMERS ET AL GREER 1 | 0 | | | | | | DST 5 MIDDLE | 03/29/72 | 281 | 16 | 0 | 5 | 34 | 520 | 856 | 9.4 | | 5.4600 |
| CONSUMERS ET AL GREER 1(85500) | 0 | | | | | | DST 4 TOP | 02/04/72 | 228 | 3 | 0 | 5 | 73 | 410 | 719 | 8.9 | 0.9980 | |
| CONSUMERS ET AL GREER 1(85500) | 0 | | | | | 182.9 | DST 3 MIDDLE | 02/04/72 | 196 | 5 | 0 | 5 | 68 | 350 | 624 | 8.7 | 0.9970 | |
| CONSUMERS ET AL GREER 1(85500) | 0 | | | | | | DST 5 TOP | 03/29/72 | 278 | 21 | 0 | 5 | 78 | 520 | 902 | 8.9 | | 5.5800 |
| **** COUNTY DURHAM** | | | | | | | | | | | | | | | | | | |
| *** TOWNSHIP HOPE** | | | | | | | | | | | | | | | | | | |
| GALLAGHER-BEEBE 1 | 25 | 2 | 402.3N | 91.4W | | | | 12/08/56 | 29151 | 28626 | 3186 | 104749 | 19.5 | 568 | 166290 | 5.8 | 1.1130 | |

## APPENDIX VI. WATER ANALYSIS SUMMARY.

| WELL NAME | LOT | CONC | N-S | E-W | FORMATION | DEPTH | SAMPLE FROM | DATE | NA | CA | MG | CL | HCO3 | SO4 | TDS | PH | DENSITY | RESIST |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **** COUNTY ELGIN** | | | | | | | | | | | | | | | | | | |
| * TOWNSHIP ALDBOROUGH | | | | | | | | | | | | | | | | | | |
| | 5 | V | | | DEVONIAN | | | 08/07/69 | 1200 | 200 | 0 | 3300 | 0 | 340 | 5040 | 7.0 | 1.0300 | |
| UNION ALDBOROUGH 12-XII | 12 | XII | 152.4N | 137.2E | GUELPH | 561.7 | | 10/31/62 | 40000 | 39200 | 10720 | 157500 | 69 | 351 | 247840 | 5.0 | 1.2240 | 0.0400 |
| CAN. KEWANEE 101 | 1 | GORE | 142.3S | 11.3W | CAMBRIAN | 1213.7 | | 12/19/63 | 52716 | 59200 | 5346 | 200930 | 44 | 909 | 319145 | 6.4 | 1.2313 | 0.0590 |
| CAN. KEWANEE 101 | 1 | GORE | 142.3S | 11.3W | CAMBRIAN | 1221.6 | | 02/10/64 | 65237 | 60676 | 7518 | 229780 | 44 | 145 | 363400 | 5.4 | 1.2330 | 0.0690 |
| CAN. KEWANEE 101 | 1 | GORE | 142.3S | 11.3W | CAMBRIAN | 1218.9 | | 12/30/63 | 53446 | 59755 | 7324 | 209400.5 | 5 | 130 | 330060.5 | 5.5 | 1.2340 | 0.0590 |
| IMP. 868 | 6 | II | 361.8N | 332.2W | CAMBRIAN | 1236.9 | BAILER | 04/03/63 | 43596 | 67400 | 8870 | 212290 | 81 | 70 | 332307 | 5.6 | 1.2380 | 0.0380 |
| TARR ALDBOROUGH | 7 | XI | 301.8N | 342.9E | CAMBRIAN | | BAILER | 08/15/67 | 52787 | 64342 | 1226 | 198426 | 332 | 270 | 317383 | 8.1 | 1.2297 | 0.0370 |
| IMP. 847 | 11 | V | 463.9N | 150.9W | CAMBRIAN | 1193.9 | BAILER | 06/28/63 | 11615 | 4560 | 790 | 27655 | 49 | 837 | 45506 | 6.3 | 1.0328 | 0.1410 |
| IMP. 847 | 11 | V | 463.9N | 150.9W | CAMBRIAN | 1197.9 | SWAB | 07/11/63 | 23253 | 30800 | 5689 | 106145 | 654 | 123 | 166664 | 6.6 | 1.1238 | 0.0500 |
| IMP. 847 | 11 | V | 463.9N | 150.9W | CAMBRIAN | 1197.9 | | 06/27/63 | 40644 | 49000 | 7290 | 168270 | 41 | 297 | 265542 | 6.2 | 1.1911 | 0.0440 |
| IMP. 847 | 11 | V | 463.9N | 150.9W | CAMBRIAN | 1211.6 | | 06/28/63 | 63204 | 57800 | 4253 | 211935 | 83 | 186 | 337461 | 6.0 | 1.2298 | 0.0400 |
| IMP. UNION ALDBOROUGH 12-XII | 12 | XII | 152.4N | 152.4E | CAMBRIAN | 1207.3 | TANK | 12/03/62 | 51221 | 57400 | 7290 | 201640 | 53 | 146 | 317750 | 6.1 | 1.2258 | 0.0420 |
| IMP. UNION ALDBOROUGH 12-XII | 12 | XII | 152.4N | 152.4E | CAMBRIAN | 1205.5 | | 12/01/62 | 51428 | 60800 | 7047 | 207320 | 63 | 112 | 326770 | 6.3 | 1.2325 | 0.0660 |
| IMP. 896 | 15 | I | 167.6N | 166.7E | CAMBRIAN | | | 03/25/65 | 53000 | 70400 | 3320 | 211000 | 0 | 450 | 338170 | | | |
| IMP. 896 | 15 | I | 167.6N | 166.7E | CAMBRIAN | 1153.4 | BAILER | 03/26/65 | 52417 | 63447 | 6245 | 211271 | 41 | 102 | 333523 | 5.0 | 1.2395 | 0.0420 |
| CAN. DELHI | 8 | X | 540.7N | 178.0W | | | | 06/30/65 | 62000 | 50400 | 1920 | 0 | 0 | 192 | 114512 | 5.9 | 1.2300 | |
| IMP ALDBOROUGH 15-I | 15 | I | 167.6N | 166.7E | | | | 03/25/65 | 53000 | 70400 | 3320 | 211000 | 0 | 450 | 338170 | | | |
| P&H ALDBOROUGH 7-18-IV | 18 | IV | 144.8N | 150.9W | | | | 08/06/76 | 57900 | 0 | 0 | 174500 | 0 | 0 | 2324001 | 0.6 | | |
| * TOWNSHIP BAYHAM | | | | | | | | | | | | | | | | | | |
| | 25 | III | | | | | WELL HEAD | 05/22/68 | 1690 | 498 | 219 | 0 | 0 | 270 | 2677 | | 1.0020 | |
| * TOWNSHIP DORCHESTER S. | | | | | | | | | | | | | | | | | | |
| CS ET AL DORCHESTER S. | 1 | X | 110.0S | 110.0W | CAMBRIAN | | DST 1 | 08/12/82 | 25000 | 33610 | 5108 | 112488 | 44 | 860 | 177110 | 5.9 | 1.1222 | 0.0550 |
| * TOWNSHIP DUNWICH | | | | | | | | | | | | | | | | | | |
| IMP. DUNWICH 5-23-A | 23 | A | 350.5N | 301.8W | GUELPH | 438.3 | BAILER | 09/20/63 | 48530 | 39600 | 9113 | 171110 | 185 | 331 | 268869 | 7.2 | 1.1903 | 0.0400 |
| IMP. DUNWICH 5-23-A | 23 | A | 350.5N | 301.8W | CLINTON | 514.5 | DST 1 | 11/03/63 | 56120 | 56800 | 7533 | 208740 | 176 | 180 | 329549 | 8.1 | 1.2345 | 0.0400 |
| IMP. FELMONT | 5 | VIII | 469.4S | 181.1E | TRENTON | 210.6 | BAILER | 08/21/63 | 0 | 42619 | 39000 | 76551 | 56733 | 81319 | 327326 | 6.6 | 1.1810 | 0.0400 |
| BLUEWATER | 0 | II | 405.4N | 198.1W | CAMBRIAN | | | 08/10/65 | 58400 | 8160 | 0 | 0 | 0 | 148 | 66708 | | 1.2500 | |
| IMP. FELMONT DUNWICH 5-VIII | 5 | VIII | 469.4S | 181.1E | CAMBRIAN | 1200.9 | BAILER | 08/28/63 | 49841 | 53600 | 11421 | 204835 | 76 | 207 | 319980 | 6.2 | 1.2338 | 0.0400 |
| IMP. DUNWICH 10A | 10 | A | 182.9S | 152.4E | CAMBRIAN | 1155.8 | | 04/15/66 | 47288 | 34126 | 23133 | 200640 | 89 | 42 | 305318 | 5.2 | 1.2122 | 0.0460 |
| BLUEWATER ET AL | 16 | I | 196.1N1 | 98.1E | CAMBRIAN | 1103.4 | BAILER | 01/09/64 | 56902 | 63400 | 5468 | 215308 | 63 | 775 | 341916 | 5.8 | 1.2880 | 0.0380 |
| BLUEWATER ET AL | 16 | III | 243.8S | 182.9W | CAMBRIAN | 1102.9 | WELL HEAD | | 51200 | 59200 | 8640 | 209200 | 0 | 0 | 328240 | 5.3 | 1.4000 | |
| IMP. BLUEWATER DUNWICH 22-II | 22 | II | 457.2N | 198.1W | CAMBRIAN | | | 06/09/65 | 20000 | 26000 | 18000 | 0 | 0 | 102 | 64102 | | 1.1000 | |
| ATLAS 2-DUNWICH 1 | 22 | IV | 167.6S | 152.4W | CAMBRIAN | 1115.6 | | | 0 | 60000 | 7300 | 0 | 0 | 180 | 67480 | 5.7 | 1.1850 | |
| CAN. DELHI | 22 | IX | 354.8S | 215.5E | CAMBRIAN | 1127.2 | BAILER | 11/20/64 | 62560 | 54000 | 7533 | 213888 | 34 | 138 | 338153 | 5.4 | 1.2408 | 0.0410 |
| IMP. 857 | 23 | A | 350.5N | 301.8W | CAMBRIAN | 1128.1 | BAILER | 08/24/63 | 57891 | 59600 | 7776 | 217260 | 98 | 132 | 342757 | 5.7 | 1.2360 | 0.0390 |
| IMP. DUNWICH 1-24-IV | 24 | IV | 174.9S | 146.3W | CAMBRIAN | 1105.8 | BAILER | 11/28/66 | 47021 | 60625 | 6434 | 198469 | 34 | 139 | 312722 | 5.1 | 1.2355 | 0.0440 |
| IMP. DUNWICH 10-A | 10 | A | 182.9S | 152.4E | | | | 01/01/65 | 56700 | 56000 | 8400 | 0 | 0 | 119 | 121219 | | 1.2400 | |
| | 14 | X | | | | | | 09/18/69 | 2460 | 336 | 361 | 4880 | 545 | 365 | 8927 | 8.3 | | |
| IMP. DUNWICH 1-24-III | 24 | III | 178.9S | 449.0E | | | | 01/01/65 | 57300 | 53200 | 6480 | 0 | 0 | 175 | 117155 | | 1.2200 | |
| IMP. DUNWICH 1-24-IV | 24 | IV | 174.9S | 146.3W | | | | | 47250 | 60400 | 6960 | 0 | 0 | 171 | 114791 | | 1.2420 | |
| * TOWNSHIP MALAHIDE | | | | | | | | | | | | | | | | | | |
| CONSUMERS 33202 | 25 | I | 1111.0S | 189.0E | GUELPH | | | 12/01/80 | 41239 | 6400 | 1944 | 80000 | 68 | 1729 | 131380 | 6.9 | | |
| * TOWNSHIP SOUTHWOLD | | | | | | | | | | | | | | | | | | |
| CONSUMERS 32002 | 4 | STREB | 88.7S | 201.2E | DRIFT | 71.6 | | 11/11/74 | 782 | 200 | 117 | 1410 | 317 | 438 | 3264 | 7.6 | | |
| CONSUMERS 32002 | 4 | STREB | 88.7S | 201.2E | DRIFT | 71.6 | | 11/11/74 | 805 | 200 | 112 | 1410 | 368 | 396 | 3289 | 7.4 | | |
| CONSUMERS 32002 | 4 | STREB | 88.7S | 201.2E | CAMBRIAN | | | 08/17/76 | 51100 | 0 | 0 | 161700 | 0 | 0 | 212800 | 5.5 | | |
| CONSUMERS 32002 | 4 | STREB | 88.7S | 201.2E | CAMBRIAN | 1106.1 | | 11/11/74 | 46129 | 48000 | 4374 | 169000 | 34 | 170 | 267707 | 5.7 | | |
| BLUEWATER-IMP. | 13 | I | 502.9N | 152.4E | CAMBRIAN | | | | 47650 | 62400 | 0 | 0 | 0 | 259 | 110309 | | 1.2200 | |
| HOME OIL SOUTHWOLD | 31 | STREB | 670.6N | 213.4E | | | | | 64000 | 34800 | 20400 | 0 | 0 | 260 | 119460 | 6.8 | 1.1600 | |

## APPENDIX VI. WATER ANALYSIS SUMMARY.

| WELL NAME | LOT | CONC | N-S | E-W | FORMATION | DEPTH | SAMPLE FROM | DATE | NA | CA | MG | CL | HCO3 | SO4 | TDS | PH | DENSITY | RESIST |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *** TOWNSHIP YARMOUTH** | | | | | | | | | | | | | | | | | | |
| MR. SKIDMORE W-63-XVII | 0 | | | | DRIFT | | | 08/29/63 | 23 | 88 | 24 | 78 | 327 | 2 | 542 | 7.1 | 1.0026 | |
| IMP. YARMOUTH 6-20-V | 20 | V | 487.7N | 163.1E | BOIS BLANC | 245.1 | BAILER | 11/22/61 | 0 | 536 | 355 | 186 | 371 | 8 | 1456 | 8.1 | 1.0089 | 1.0700 |
| BASLEN PETROL. | 14 | V | 289.6N | 152.4W | CAMBRIAN | | | | 66400 | 33600 | 12240 | 0 | 0 | 234 | 112474 | 6.1 | 1.1800 | |
| IMP. 850 | 16 | XIV | 484.6N | 211.5E | CAMBRIAN | 1050.3 | | 07/26/63 | 37306 | 63800 | 11543 | 203593 | 78 | 153 | 316273 | 5.7 | 1.2433 | 0.0460 |
| **** COUNTY ESSEX** | | | | | | | | | | | | | | | | | | |
| *** TOWNSHIP ANDERDON** | | | | | | | | | | | | | | | | | | |
| IMP. CALVAN ANDERDON 9-VI | 9 | VI | 213.4N | 609.6E | GUELPH | | | 03/13/61 | 45701 | 23200 | 1374 | 124250 | 78 | 12 | 194615 | 7.5 | 1.1323 | 0.0490 |
| IMP. CALVAN ANDERDON 9-VI | 9 | VI | 213.4N | 609.6E | GUELPH | 363.9 | | 01/24/61 | 80454 | 17200 | 3038 | 163300 | 78 | 15 | 264083 | 7.1 | 1.2043 | 0.0430 |
| *** TOWNSHIP COLCHESTER N.** | | | | | | | | | | | | | | | | | | |
| IMP. COLCHESTER N. 14 SMR | 14 | SMR | 304.8S | 106.7E | DETROIT R. | 128.0 | BAILER | 01/05/61 | 0 | 782 | 258 | 1179 | 183 | 52 | 2454 | 7.7 | 1.0031 | 2.0900 |
| *** TOWNSHIP COLCHESTER S.** | | | | | | | | | | | | | | | | | | |
| JUROCKO ILER CREEK 1 | 41 | FRONT | 1232.6N | 133.8W | DRIFT | | PUMP | 08/16/65 | 0 | 0 | 0 | 6 | 0 | 180 | 186 | 9.6 | | |
| IMP. COLCHESTER S 21 (WELL 1) | 82 | FRONT | 1414.3N | 13.8E | DRIFT | 42.7 | | 10/01/61 | 48 | 50 | 35 | 99 | 273 | 8 | 513 | 8.2 | 0.9985 | 4.7000 |
| IMP. FINA COLCHESTER S. | 2 | III | 167.6N | 262.1W | TRENTON | 736.4 | BAILER | 08/03/63 | 36018 | 142000 | 8019 | 103838 | 73 | 228 | 290176 | 6.9 | 1.1264 | 0.0470 |
| IMP. HARVEST SUBMARINE | 59 | FRONT | 956.8N | 37.2E | TRENTON | 671.5 | FRANC TANK | 12/17/59 | 42090 | 15920 | 5516 | 107920 | 0 | 1680 | 173126 | 2.3 | 1.1172 | 0.0610 |
| IMP. HARVEST SUBMARINE | 79 | FRONT | 956.8N | 37.2E | TRENTON | 728.8 | SWAB | 12/07/59 | 12305 | 67200 | 972 | 140935 | 0 | 1165 | 222577 | 0.1 | 1.1627 | 0.0550 |
| IMP. HARVEST SUBMARINE | 79 | FRONT | 956.8N | 37.2E | TRENTON | 728.8 | SWAB 2 | 12/09/59 | 43010 | 16480 | 5103 | 108630 | 195 | 2249 | 175667 | 5.6 | 1.1180 | 0.0610 |
| IMP. HARVEST SUBMARINE | 79 | FRONT | 956.8N | 37.2E | TRENTON | 671.5 | SWAB 4 | 12/14/59 | 31119 | 18760 | 4520 | 94430 | 0 | 569 | 149398 | 0.7 | 1.1014 | 0.0620 |
| IMP. HARVEST SUBMARINE 4 | 79 | FRONT | 347.2N | 37.2W | TRENTON | 636.4 | LEASE TANK | 12/19/59 | 39123 | 17600 | 4426 | 103660 | 0 | 1111 | 165920 | 1.4 | 1.1140 | 0.0610 |
| IMP. HARVEST SUBMARINE | 79 | FRONT | 956.8N | 37.2E | TRENTON | 728.8 | SWAB 4 | 12/08/59 | 43562 | 18840 | 4714 | 111825 | 229 | 3252 | 182422 | 5.3 | 1.1210 | 0.0610 |
| IMP. HARVEST SUBMARINE | 79 | FRONT | 956.8N | 37.2E | BLACK R. | 755.6 | SWAB | 12/05/59 | 41193 | 18800 | 4811 | 108985 | 5 | 2737 | 176531 | 4.3 | 1.1214 | 0.0610 |
| POUNDER HARMON & HILL | 2 | II | 332.8N | 218.2W | | | | 08/17/76 | 37500 | 0 | 0 | 76600 | 0 | 0 | 114100 | 7.4 | | |
| *** TOWNSHIP GOSFIELD N.** | | | | | | | | | | | | | | | | | | |
| IMP. DELHI CON WEST | 5 | VII | 609.6N | 332.2E | DRIFT | 41.1 | | 10/01/61 | 71 | 51 | 22 | 128 | 200 | 28 | 500 | 8.1 | 1.0007 | 6.4000 |
| IMP. DELHI CON WEST | 5 | VII | 609.6N | 332.2E | DETROIT R. | 224.3 | | 07/11/61 | 0 | 676 | 51 | 298 | 161 | 24 | 1210 | 7.9 | 1.0050 | 2.6000 |
| IMP. DELHI CON WEST GOSFIELD N | 5 | VII | 609.6N | 332.2E | GUELPH | 484.6 | | 07/29/61 | 1058 | 1520 | 948 | 7029 | 137 | 36 | 10728 | 7.2 | 1.0032 | 0.3800 |
| IMP. DELHI CON WEST GOSFIELD N | 5 | VII | 609.6N | 332.2E | GUELPH | 376.4 | | 07/18/61 | 29992 | 12000 | 4131 | 79520 | 68 | 20 | 125731 | 7.8 | 1.0963 | 0.0600 |
| IMP. 787 | 5 | VII | 609.6N | 332.2E | CAMBRIAN | 1011.3 | | 08/25/61 | 47564 | 23200 | 5832 | 31350 | 54 | 16 | 108016 | 7.0 | 1.1305 | 0.0490 |
| IMP. 764 | 271 | NTR | 609.6N | 152.4W | CAMBRIAN | 1018.3 | | 08/25/61 | 23161 | 23200 | 8991 | 102950 | 44 | 24 | 158370 | 7.3 | 1.1414 | 0.0460 |
| *** TOWNSHIP GOSFIELD S.** | | | | | | | | | | | | | | | | | | |
| IMP. DELHI HOME CON WEST | 3 | IV | 502.9N | 135.6W | CLINTON ? | 728.5 | | 12/14/62 | 36340 | 13904 | 3548 | 90276 | 59 | 870 | 144997 | 6.6 | 1.1015 | 0.0700 |
| RAM 47 7-3-IV | 3 | OV | 167.6N | 150.9E | | | | 12/14/73 | 46600 | 0 | 0 | 101400 | 0 | 0 | 148000 | 6.4 | | |
| *** TOWNSHIP MAIDSTONE** | | | | | | | | | | | | | | | | | | |
| IMP. ET AL MAIDSTONE (793) | 18 | III | 457.2S | 838.2E | DRIFT | 32.6 | ROCK WELL | 08/03/61 | 0 | 220 | 200 | 511 | 88 | 20 | 1039 | 7.7 | 1.0025 | 2.3000 |
| IMP. ET AL MAIDSTONE (793) | 18 | III | 457.2S | 838.2E | DRIFT | | | 08/03/61 | 0 | 78 | 30 | 17 | 244 | 16 | 385 | 8.2 | 1.0016 | |
| IMP. DELHI HOME CONWEST | 18 | III | 457.2S | 838.2E | DETROIT R. | 37.5 | | 08/29/61 | 681 | 588 | 291 | 1769 | 226 | 1401 | 4956 | 7.1 | 1.0050 | |
| IMP. DELHI HOME CON WEST | 18 | III | 609.6N | 332.2E | GUELPH | 444.1 | | 09/15/61 | 72036 | 19200 | 9963 | 173950 | 215 | 0 | 275364 | 7.2 | 1.1415 | 0.0490 |
| IMP. DELHI CON WEST MAIDSTON 1 | 18 | III | 609.6N | 332.2E | CLINTON | 548.0 | | 09/29/61 | 84019 | 25200 | 4860 | 188150 | 161 | 12 | 302402 | 8.2 | 1.1688 | 0.0450 |
| IMP. 793 | 18 | III | 457.2S | 838.2E | CAMBRIAN | 1058.3 | | 10/27/61 | 60881 | 22400 | 1701 | 138450 | 76 | 8 | 223516 | 6.8 | 1.1384 | 0.0560 |
| RAM 40 8-27-III | 27 | III | 152.4N | 167.6E | | | | 08/17/76 | 50000 | 0 | 0 | 114900 | 0 | 0 | 164900 | 6.5 | | |

## APPENDIX VI. WATER ANALYSIS SUMMARY.

| WELL NAME | LOT | CONC | N-S | E-W | FORMATION | DEPTH | SAMPLE FROM | DATE | NA | CA | MG | CL | HCO3 | SO4 | TDS | PH | DENSITY | RESIST |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *** TOWNSHIP MALDEN** | | | | | | | | | | | | | | | | | | |
| IMP. MALDEN 19 | 49 | V | 152.4N | 163.7E | DETROIT R. | 24.4 | BOTTOM HOLE | 12/13/61 | 0 | 250 | 122 | 32 | 93 | 16 | 513 | 7.7 | 1.0050 | 3.4000 |
| IMP. CALVAN MALDEN 25-2-XXII | 35 | III | 201.2S | 877.5W | GUELPH | 329.2 | | 12/21/60 | 98762 | 9800 | 7776 | 156200 | 97.6 | 1 | 272636.6 | 7.3 | 1.1893 | 0.0430 |
| IMP. CALVAN MALDEN 49-V | 49 | V | 152.4N | 163.6E | GUELPH | 342.0 | BAILER | 01/04/62 | 21413 | 7600 | 2260 | 52895 | 256 | 20 | 84444 | 6.7 | 1.0688 | 0.0490 |
| IMP. CALVAN MALDEN 25-Z-22 | 25 | III | | | TRENTON | 733 | | 01/01/61 | 26174 | 21600 | 2746 | 79342 | 54 | 5 | 129921 | 7.1 | 1.0916 | 0.0630 |
| CON WEST IMP FELMONT MALDEN 63 | 63 | VI | 100.6S | 100.6W | TRENTON | 707.1 | BAILER | 10/02/61 | 759 | 1160 | 608 | 4842 | 229 | 8 | 7606 | 7.6 | 1.0078 | 0.5700 |
| CON WEST ER AL D-7 | 64 | VI | 143.3N | 488.9W | TRENTON | 745.8 | BAILER | 12/29/61 | 38985 | 17840 | 3742 | 102595 | 24 | 0 | 163186 | 7.2 | 1.1211 | 0.0620 |
| CON WEST ET AL D-7 | 64 | VI | 220.4S | 61.0W | TRENTON | | BATTERY TANK | 03/02/62 | 46368 | 25600 | 6075 | 134368 | 156 | 0 | 212567 | 6.9 | 1.1474 | 0.5400 |
| CON WEST ET AL D-7 GRANT 1 | 65 | VII | 198.4N | 92.0E | TRENTON | 688.2 | BAILER | 06/06/62 | 40572 | 17680 | 4252 | 106145 | 98 | 0 | 168747 | 7.4 | 1.1205 | 0.0490 |
| PUTMAN SELLARS 1 | 66 | VII | 106.7N | 167.6E | TRENTON | 709.3 | SWAB WATER | 01/11/62 | 3151 | 976 | 275 | 7284 | 161 | 4 | 11851 | 7.9 | 1.0098 | 0.3700 |
| IMP. CALVAN MALDEN 25 | 25 | III | 548.6S | 457.2W | BLACK R. | 815.3 | | 02/25/62 | 45080 | 22760 | 6196 | 127800 | 34 | 0 | 201870 | 6.8 | 1.1516 | 0.0490 |
| C.W.P. 100 S LARAMIE 1 | 64 | VI | 220.4S | 93.0W | BLACK R. | 791.6 | BAILER | 06/05/62 | 35374 | 12476 | 5178 | 9197 | 65 | 13 | 62303 | 7.5 | 1.1044 | 0.0520 |
| C.W.P. MALDEN 1 | 15 | I | 153.0S | 228.6W | CAMBRIAN | 900.0 | | 11/23/67 | 0 | 10000 | 2200 | 0 | 0 | 1140 | 13340 | 7.0 | 1.0880 | |
| IMP. 769 | 75 | VI | 221.0N | 435.9W | CAMBRIAN | 960.1 | | 12/20/60 | 65044 | 4400 | 6804 | 103021 | 81 | 3 | 179353 | 7.0 | 1.1178 | 0.0600 |
| RAM 45 | 93 | VIII | 152.4N | 502.9W | CAMBRIAN | | | 08/17/76 | 35200 | 0 | 0 | 76600 | 0 | 0 | 111800 | 5.9 | | |
| RAM 45 4-93-VIII | 93 | VIII | 152.4N | 502.9W | CAMBRIAN | | | 08/17/76 | 35200 | 0 | 0 | 76600 | 0 | 185.9 | 111985.9 | 5.9 | | |
| *** TOWNSHIP MERSEA** | | | | | | | | | | | | | | | | | | |
| PEMBINA ET AL MERSEA 7-14-VI | 14 | VI | 161.5N | 161.5E | TRENTON | 674.0 | DST 2 | 04/30/83 | 42200 | 32004 | 5813 | 139864 | 30 | 408 | 220319 | 6.1 | 1.1595 | 0.0460 |
| CONSUMERS 33774 | 3 | VII | 92.4N | 208.3W | CAMBRIAN | 530.0 | DST 1 | 03/01/84 | 43000 | 24851 | 3931 | 122653 | 8 | 404 | 194847 | 5.1 | 1.1405 | 0.0450 |
| IMP. 673 | 10 | VII | 259.1N | 166.1E | CAMBRIAN | | | 05/11/58 | 48208 | 23000 | 3766 | 126025 | 4 | 5 | 201008 | 4.4 | 1.1390 | 0.0590 |
| PEMBINA ET AL | 14 | VI | 161.5N | 161.5E | CAMBRIAN | 1027.0 | DST 1 | 04/30/83 | 43500 | 27586 | 5217 | 132405 | 35 | 394 | 209137 | 6.2 | 1.1500 | 0.0450 |
| PEMBINA ET AL | 14 | VI | 161.5N | 161.5E | CAMBRIAN | 1027.0 | DST 1 | 04/30/83 | 49500 | 33644 | 6867 | 156941 | 35 | 289 | 247276 | 6.2 | 1.1765 | 0.0430 |
| PEMBINA ET AL | 14 | VI | 161.5N | 161.5E | CAMBRIAN | 1027.0 | DST 1 | 04/30/83 | 45500 | 29402 | 5775 | 140382 | 35 | 665 | 221759 | 6.2 | 1.1500 | 0.0440 |
| PEMBINA ET AL | 14 | VI | 161.5N | 161.5E | CAMBRIAN | | MUD PIT | 04/29/83 | 26500 | 14626 | 2429 | 74573 | 75 | 783 | 118986 | 7.3 | 1.0865 | 0.0700 |
| IMP. 744 | 237 | NTR | 1127.8N | 61.0E | CAMBRIAN | 1023.8 | | 09/01/60 | 32361 | 18800 | 5589 | 99400 | 41 | 4 | 156195 | 7.7 | 1.1138 | 0.0660 |
| IMP. 744 | 237 | NTR | 1127.7N | 61.0E | CAMBRIAN | 1023.8 | | 06/01/60 | 54849 | 29400 | 5346 | 146438 | 195 | 79 | 236307 | 7.4 | | 1.1640 |
| *** TOWNSHIP ROCHESTER** | | | | | | | | | | | | | | | | | | |
| BRETT ET AL | 16 | VI | 121.9N | 198.1E | CAMBRIAN | 1066.8 | | 05/13/70 | 0 | 44000 | 4700 | 0 | 0 | 600 | 49300 | 6.4 | 1.1410 | |
| *** TOWNSHIP SANDWICH S.** | | | | | | | | | | | | | | | | | | |
| IMP. SANDWICH S. | 10 | XII | 91.4S | 45.7E | TRENTON | 838.5 | | 03/23/61 | 58052 | 52400 | 9963 | 211225 | 41 | 4 | 331685 | 6.6 | 1.2333 | 0.0540 |
| *** TOWNSHIP SANDWICH W.** | | | | | | | | | | | | | | | | | | |
| DOME STORAGE D-59-I | 59 | I | 182.9N | 491.6W | LUCAS | 91.4 | | 04/01/77 | 0 | 0 | 0 | 0 | 0 | 1432 | 1432 | 7.7 | | |
| DOME STORAGE E-59-I | 59 | I | 334.4N | 528.2W | LUCAS | 67.4 | | 05/01/77 | 1624 | 128 | 47 | 1283 | 305 | 1909 | 5296 | 7.5 | 1.0060 | 1.4000 |
| DOME STORAGE F-59-I | 59 | I | 334.4N | 537.4E | AMHERSTB. | 173.4 | SWAB | 04/18/77 | 24944 | 1411 | 152 | 39400 | 122 | 2601 | 68630 | 8.7 | 1.0490 | 0.1090 |
| *** TOWNSHIP TILBURY N.** | | | | | | | | | | | | | | | | | | |
| CANUS TILBURY NORTH 6-6-III | 6 | III | | | | | | 12/14/73 | 51100 | 0 | 0 | 124100 | 0 | 0 | 175200 | 6.5 | | |
| **** COUNTY GLENGARRY** | | | | | | | | | | | | | | | | | | |
| *** TOWNSHIP LANCASTER** | | | | | | | | | | | | | | | | | | |
| CONSUMERS 1801 | 17 | II | | | | | | 01/25/65 | 53 | 64 | 23 | 66 | 280 | 44 | 530 | 7.6 | 1.0030 | 1.8400 |
| **** COUNTY HALDIMAND** | | | | | | | | | | | | | | | | | | |
| *** TOWNSHIP DUNN** | | | | | | | | | | | | | | | | | | |
| VILLAGE OF CANBORO | 0 | | | | DRIFT | | WELL HEAD | 09/01/67 | 0 | 0 | 0 | 2142 | 0 | 1940 | 4082 | 7.5 | | |
| **** COUNTY HASTINGS** | | | | | | | | | | | | | | | | | | |
| *** TOWNSHIP THURLOW** | | | | | | | | | | | | | | | | | | |
| CONSUMERS 1515 | 2 | V | | | | | | 01/25/65 | 3528 | 2103 | 354 | 8750 | 49 | 1536 | 16320 | 7.2 | 1.0150 | 0.4110 |

## APPENDIX VI. WATER ANALYSIS SUMMARY.

| WELL NAME | LOT CONC | N-S | E-W | FORMATION | DEPTH | SAMPLE FROM | DATE | NA | CA | MG | CL | HCO3 | SO4 | TDS | PH | DENSITY | RESIST |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *** TOWNSHIP TOWN OF TRENTON** | | | | | | | | | | | | | | | | | |
| CONSUMERS 1526 | 0 | | | | | | 05/14/64 | 9894 | 4946 | 972 | 264407.3 | 0 | 495 | 280714.3 | 7 | 1.0320 | 0.2570 |
| **** COUNTY HUDSON BAY** | | | | | | | | | | | | | | | | | |
| *** TOWNSHIP** | | | | | | | | | | | | | | | | | |
| AQUITAINE ET AL HUDSON WALRUS | 0 | | | | | CORE LEACHED | | 2668 | 595 | 44 | 4110 | 83 | 1540 | 9040 | 7.4 | 1.0118 | 0.6120 |
| **** COUNTY HURON** | | | | | | | | | | | | | | | | | |
| *** TOWNSHIP GODERICH** | | | | | | | | | | | | | | | | | |
| GODERICH SALT MINE | 0 | | | | | | 04/01/77 | 32000 | 80000 | 14000 | 245000 | 0 | 51 | 371051 | 4.7 | | |
| *** TOWNSHIP HAY** | | | | | | | | | | | | | | | | | |
| KING RESOURCES HAY 2-3-LRW | 3 LRW | 109.1S | 365.8W | A-1 | 541.9 | | 07/25/69 | 98325 | 6063 | 926 | 164178 | 142 | 1034 | 270668 | 6.7 | 1.1838 | 0.0450 |
| *** TOWNSHIP STEPHEN** | | | | | | | | | | | | | | | | | |
| IMP. UNION GRAND BEND 5 | 41 SB | 45.7N | 213.4W | DETROIT R. | 140.2 | | 01/27/61 | 0 | 2400 | 2066 | 6035 | 49 | 73 | 10623 | 7.6 | 1.0074 | 0.5000 |
| KING RESOURCES STEPHEN 3-6-IX | 6 IX | 158.5N | 640.1W | GUELPH | 522.7 | DST | 06/23/69 | 112102 | 7123 | 1132 | 187781 | 49 | 1265 | 309452 | 6.6 | 1.2100 | 0.0430 |
| *** TOWNSHIP TUCKERSMITH** | | | | | | | | | | | | | | | | | |
| IMP. TUCKERSMITH 3A-30-III | 30 III | 619.0S | 230.1E | DRIFT | 26.2 | | 02/27/62 | 115 | 232 | 259 | 1193 | 249 | 0 | 2048 | 7.5 | 1.0030 | 2.0000 |
| IMP. TUCKERSMITH 3A-30-III HRS | 30 III | HRS619.1S | 230.1E | DUNDEE | 35.1 | BAILER | 12/18/61 | 46 | 47 | 31 | 30 | 349 | 0 | 503 | 7.7 | 1.0000 | |
| IMP. TUCKERSMITH 3A-30-III HRS | 30 III | HRS619.1S | 230.1E | DETROIT R. | 89.9 | | 01/15/62 | 0 | 72 | 20 | 11 | 273 | 0 | 376 | 7.7 | 1.0019 | |
| IMP. TUCKERSMITH 3A-30-III HRS | 30 III | 619.0S | 230.1E | BASS I.S | 268.2 | BAILER | 01/01/62 | 0 | 700 | 163 | 369 | 176 | 24 | 1432 | 7.9 | 1.0039 | 2.1000 |
| *** TOWNSHIP W. WAWANOSH** | | | | | | | | | | | | | | | | | |
| MESA ET AL BELMORE 1 | 26 X | 205.7N | 304.8E | GUELPH | | | 11/26/68 | 91656 | 27514 | 4277 | 20200 | 207 | 566 | 144420 | 6.3 | 1.2120 | 0.0480 |
| ALTAIR ET AL | 17 VIII | | | | | | 08/03/71 | 0 | 0 | 0 | 165000 | 0 | 0 | 165000 | | | |

## APPENDIX VI. WATER ANALYSIS SUMMARY.

| WELL NAME | LOT | CONC | N-S | E-W | FORMATION | DEPTH | SAMPLE FROM | DATE | NA | CA | MG | CL | HCO3 | SO4 | TDS | PH | DENSITY | RESIST |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **** COUNTY KENORA** | | | | | | | | | | | | | | | | | | |
| * TOWNSHIP PATRICIA | | | | | | | | | | | | | | | | | | |
| AQUITANE SOGEPET ET AL PEN 1 | 0 | | | | | 18 | | 10/27/69 | 15493 | 110991 | 9040 | 246000 | 956 | 123 | 382603 | 6.9 | 1.2920 | 0.0610 |
| AQUITANE SOGEPET ET AL PEN 1 | 0 | | | | | 22 | | 12/01/69 | 3054 | 116757 | 8845 | 236400 | 1066 | 103 | 366225 | 7.3 | 1.3080 | 0.0760 |
| AQUITANE SOGEPET ET AL PEN 1 | 0 | | | | | 24 | | 12/01/69 | 15278 | 119800 | 9428 | 363400 | 1066 | 21 | 508993 | 7.4 | 1.3150 | 0.0770 |
| AQUITANE SOGEPET ET AL PEN 1 | 0 | | | | | 19 | | 10/27/69 | 9761 | 153914 | 13997 | 327600 | 1036 | 6 | 506314 | 5.5 | 1.3720 | 0.0920 |
| AQUITANE SOGEPET ET AL PEN 1 | 0 | | | | | 5 | | 10/03/69 | 33914 | 45085 | 5763 | 145400 | 383 | 477 | 231022 | 7.2 | 1.1780 | 0.0600 |
| AQUITANE SOGEPET ET AL PEN 1 | 0 | | | | | 7 | | 10/03/69 | 10019 | 155035 | 13997 | 330000 | 960 | 41 | 510052 | 5.4 | 1.3720 | 0.0900 |
| AQUITANE SOGEPET ET AL PEN 1 | 0 | | | | | 20 | | 10/27/69 | 9872 | 158238 | 14483 | 336800 | 1110 | 2 | 520505 | 5.6 | 1.3790 | 0.0970 |
| AQUITANE SOGEPET ET AL PEN 1 | 0 | | | | | 17 | | 10/27/69 | 12880 | 133093 | 11275 | 287600 | 1100 | 4 | 445952 | 6.5 | 1.3370 | 0.0770 |
| AQUITANE SOGEPET ET AL PEN 1 | 0 | | | | | 21 | | 10/27/69 | 9037 | 160961 | 15163 | 342400 | 960 | 2 | 528523 | 5.1 | 1.3840 | 0.0980 |
| AQUITANE SOGEPET ET AL PEN 1 | 0 | | | | | 6 | | 10/03/69 | 9362 | 151672 | 13802 | 322400 | 1066 | 51 | 498353 | 5.8 | 1.3670 | 0.0880 |
| AQUITANE SOGEPET ET AL PEN 1 | 0 | | | | | 2 | | 10/03/69 | 28194 | 25786 | 3086 | 97200 | 303 | 1000 | 155569 | 7.4 | 1.1230 | 0.0720 |
| AQUITANE SOGEPET ET AL PEN 1 | 0 | | | | | 16 | | 10/27/69 | 11947 | 139499 | 12830 | 302000 | 1134 | 19 | 467429 | 6.7 | 1.3460 | 0.0820 |
| AQUITANE SOGEPET ET AL PEN 1 | 0 | | | | | 23 | | 12/01/69 | 13029 | 118358 | 9720 | 257200 | 1110 | 29 | 399446 | 7.3 | 1.3140 | 0.0780 |
| AQUITAINE SOGEPET ET AL PEN 1 | 0 | | | | | 1 | | 10/03/69 | 34187 | 36116 | 4180 | 128200 | 325 | 593 | 203601 | 7.4 | 1.1580 | 0.0620 |
| AQUITANE SOGEPET ET AL PEN 1 | 0 | | | | | 3 | | 10/03/69 | 28156 | 20380 | 2357 | 85300 | 325 | 1189 | 137707 | 7.4 | 1.1080 | 0.0750 |
| AQUITANE SOGEPET ET AL PEN 1 | 0 | | | | | 13 | | 10/03/69 | 32162 | 63023 | 6387 | 179200 | 481 | 284 | 281517 | 6.9 | | 0.0580 |
| AQUITANE SOGEPET ET AL PEN 1 | 0 | | | | | 4 | | 10/08/69 | 28291 | 19059 | 2309 | 83000 | 317 | 1235 | 134211 | 7.4 | 1.1050 | 0.0790 |
| **** COUNTY KENT** | | | | | | | | | | | | | | | | | | |
| * TOWNSHIP DOVER | | | | | | | | | | | | | | | | | | |
| UNION IMP. ELECTRIC 1 | 19 | 14E | 752.9N | 88.4E | CAMBRIAN | 1208.5 | BOTTOM HOLE | 12/18/48 | 68379 | 44000 | 8991 | 209450 | 102 | 0 | 330922 | 6.7 | 1.2302 | 0.0540 |
| * TOWNSHIP HARWICH | | | | | | | | | | | | | | | | | | |
| IMP. WOLFE 2 | 10 | III RT | 152.4N | 152.2W | DEVONIAN | | ABANDON'T WAT | 02/13/62 | 23713 | 13880 | 3767 | 72065 | 54 | 0 | 113479 | 9.1 | 1.0919 | 0.0710 |
| IMP. 542 | 4 | IV WCR | 24.4N | 91.4E | CAMBRIAN | 1203.7 | | | 41883 | 35400 | 8748 | 152650 | 54 | 0 | 238735 | 7.1 | 1.1710 | 0.0560 |
| IMP. 556 | 14 | IX LES | 304.8S | 228.6W | CAMBRIAN | 1207.0 | | 05/01/58 | 54142 | 48400 | 6804 | 188860 | 39 | 80 | 298325 | 4.5 | 1.2110 | 0.0420 |
| IMP. HARWICH | 23 | VI RTS | 411.0N | 124.8E | CAMBRIAN | 1201.2 | | 03/28/63 | 42228 | 43000 | 4617 | 154425 | 89 | 274 | 244633 | 6.7 | 1.1760 | 0.0460 |
| * TOWNSHIP HOWARD | | | | | | | | | | | | | | | | | | |
| UNITED REEF 10 | 4 | VIII | 165.8N | 213.4E | CAMBRIAN | 1248.8 | | 08/27/63 | 65619 | 43600 | 7655 | 200398 | 63 | 273 | 317608 | 6.3 | 1.1943 | 0.0410 |
| ZENMAC 6 | 8 | II | 464.8N | 181.1W | CAMBRIAN | | | 04/05/65 | 58000 | 59200 | 1270 | 203000 | 0 | 750 | 322220 | | | |
| IMP. 530A MOR. 3A | 92 | BELE | 538.0S | 253.0W | CAMBRIAN | 1259.4 | | 12/05/61 | 57799 | 47200 | 7776 | 195250 | 49 | 0 | 308074 | 6.8 | 1.2154 | 0.0490 |

## APPENDIX VI. WATER ANALYSIS SUMMARY.

| WELL NAME | LOT | CONC | N-S | E-W | FORMATION | DEPTH | SAMPLE FROM | DATE | NA | CA | MG | CL | HCO3 | SO4 | TDS | PH | DENSITY | RESIST |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *** TOWNSHIP ORFORD** | | | | | | | | | | | | | | | | | | |
| ORFORD 8-55 NTR | 55 | NTR | 100.7N | 203.8E | DRIFT | 65.5 | | 03/07/62 | 621 | 94 | 12 | 575 | 1025 | 0 | 2327 | 7.9 | 1.0000 | 4.7000 |
| IMP. ORFORD 6-55 NTR | 55 | NTR | 665.4N | 174.7W | DETROIT R. | 240.8 | | 04/26/63 | 11819 | 2271 | 1693 | 25657 | 100 | 1980 | 43520 | 6.9 | 1.0323 | 0.1540 |
| IMP ORFORD 6-A | 6 | A | 320.0N | 263.3E | GUELPH | 580.6 | BAILER | 04/16/63 | 88481 | 24600 | 5711 | 196315 | 78 | 345 | 315530 | 6.3 | 1.2150 | 0.0410 |
| ALLEGANY ORFORD 9-X | 9 | X | 335.3S | 121.9W | GUELPH | 606.9 | BAILER | 06/19/63 | 78591 | 32400 | 6318 | 196670 | 54 | 277 | 314310 | 6.3 | 1.2205 | 0.0430 |
| ALLEGANY ORFORD 9-X | 9 | X | 335.3S | 121.9W | GUELPH | 532.5 | BAILER | 06/12/63 | 73623 | 34400 | 7169 | 197203 | 59 | 240 | 312694 | 6.4 | 1.2203 | 0.0420 |
| TEXACO 3 | 2 | XII | 172.2S | 170.7W | CAMBRIAN | | WELL HEAD | 08/01/66 | 45500 | 55200 | 6720 | 0 | 0 | 158 | 107578 | | 1.2200 | |
| SYD. PIPELINE DUART 1 | 5 | SMR | 204.2N | 1 84.4W | CAMBRIAN | 1229.6 | BAILER | 09/17/63 | 51888 | 57800 | 7898 | 205190 | 83 | 156 | 323015 | 4.7 | 1.2295 | 0.0380 |
| IMP. ORFORD 6-A | 6 | A | 320.0N | 263.3E | CAMBRIAN | 1212.8 | | 05/27/63 | 57615 | 62400 | 7047 | 219745 | 78 | 82 | 346967 | 5.8 | 1.2411 | 0.0590 |
| ALLEGANY 86 | 9 | X | 335.3S | 121.9E | CAMBRIAN | 1217.7 | | 07/24/63 | 45091 | 57000 | 8748 | 194185 | 63 | 162 | 305249 | 5.8 | 1.2280 | 0.0450 |
| IMP. UNION | 15 | I | 168.4n | 231.0w | CAMBRIAN | 1248.8 | BAILER | 06/04/64 | 53199 | 55800 | 9842 | 209273 | 81 | 190 | 328385 | 5.3 | 1.2330 | 0.0380 |
| IMP. UNION | 15 | I | 168.6N | 231.0W | CAMBRIAN | 1242.7 | BAILER | 06/10/64 | 54418 | 54000 | 9234 | 206255 | 88 | 140 | 324135 | 5.8 | 1.2325 | 0.0380 |
| ANGELUS MORAVIAN | 27 | IR | 304.8S | 90.2E | CAMBRIAN | 1205.8 | | 07/10/71 | 0 | 54000 | 6700 | 0 | 105 | 180 | 60985 | 5.8 | 1.2080 | |
| IMP. 822 | 53 | NTR | 628.8N | 241.7W | CAMBRIAN | 1208.5 | | 10/01/62 | 32400 | 44600 | 9300 | 156000 | 36.8 | 342 | 242678.8 | 5.0 | 1.2280 | 0.0400 |
| IMP. 808 | 55 | NTR | 100.7N | 203.8E | CAMBRIAN | 1214.9 | DST 3 | 04/09/62 | 41009 | 45800 | 5954 | 161525 | 98 | 0 | 254386 | 7.0 | 1.1921 | 0.0470 |
| IMP. 808 | 55 | NTR | 100.7N | 203.8E | CAMBRIAN | 1214.9 | DST 4 | 04/16/62 | 49519 | 59600 | 6682 | 201285 | 54 | 0 | 317140 | 6.3 | 1.2301 | 0.0450 |
| IMP. 808 | 55 | NTR | 100.7N | 203.8E | CAMBRIAN | 1214.9 | DST 5 | 04/09/62 | 50784 | 58000 | 7533 | 202882 | 49 | 0 | 319248 | 7.1 | 1.2296 | 0.0470 |
| IMP. 808 | 55 | NTR | 100.7N | 203.8E | CAMBRIAN | 1202.7 | DST 2 | 04/05/62 | 50462 | 50200 | 5954 | 183890 | 122 | 0 | 290628 | 7.4 | 1.1293 | 0.0450 |
| IMP. 863 | 57 | NTR | 152.1N | 156.7W | CAMBRIAN | 1200.6 | BAILER | 02/10/64 | 53751 | 65400 | 4496 | 211580 | 78 | 75 | 335380 | 6.3 | 1.2295 | 0.0410 |
| LYNNWOOD SEC. 1 | 60 | STR | 1303.0S | 64.0W | CAMBRIAN | 1240.8 | | 03/28/63 | 40825 | 47960 | 8165 | 171394 | 122 | 210 | 268676 | 7.5 | 1.2004 | 0.0470 |
| TEXACO 5 | 63 | NTR | 384.0S | 164.6E | CAMBRIAN | 1270.7 | BAILER | 05/16/67 | 54112 | 58094 | 6876 | 206071 | 41 | 235 | 325429 | 4.8 | 1.2336 | 0.0128 |
| TEXACO 5 | 63 | NTR | 384.0S | 164.6E | CAMBRIAN | 1260.9 | | 05/20/67 | 0 | 46800 | 5600 | 0 | 0 | 140 | 52540 | 3.0 | 1.2340 | |
| BRETT DECCA ET AL ORFORD 7-17- | 17 | I | | | | | | 08/17/76 | 57900 | 0 | 0 | 188600 | 0 | 0 | 246500 | 5.6 | | |
| ORFORD 6-53-NTR | 53 | NTR | | | | | DRILLING FLUID | 10/10/62 | 3330 | 4000 | 6500 | 29800 | 36.6 | 200 | 43866.6 | 5.5 | 1.0300 | 0.1350 |
| ORFORD 8-55-NTR | 55 | NTR | 100.7N | 203.8E | | | FREE WATER | 05/12/62 | 47750 | 29350 | 1545 | 163500 | 15.5 | 2300 | 244460.5 | 2.5 | 1.2600 | 0.0410 |
| IMP. 808 | 55 | NTR | 125.6N | 203.9E | | | WELL HEAD | 05/17/62 | 121800 | 8330 | 778 | 204000 | 25.4 | 1440 | 336373.4 | 3.0 | 1.2500 | 0.0380 |
| *** TOWNSHIP RALEIGH** | | | | | | | | | | | | | | | | | | |
| CONSUMERS 33406 | 1 | VI | 503.1S | 150.9E | GUELPH | 438.5 | DST 1 STRADDLE | 12/05/81 | 6233 | 3360 | 0 | 15600 | 0 | 0 | 25193 | 6.5 | 1.0180 | |
| BUXTON ET AL | 2 | X | 502.9N | 150.9W | CAMBRIAN | 1135.1 | | 06/23/71 | 52000 | 36000 | 9900 | 170000 | 0 | 380 | 268280 | 6.5 | 1.1190 | |
| BUXTON SHAWNEE | 3 | III | 167.6N | 150.9E | CAMBRIAN | 1130.8 | | 06/23/71 | 48000 | 37000 | 5100 | 170000 | 0 | 330 | 260430 | 6.1 | | 1.1190 |
| BUXTON ET AL RALEIGH 8 | 3 | IX | 502.9N | 109.7W | CAMBRIAN | 1136.9 | | 11/02/71 | 0 | 6600 | 1800 | 0 | 145 | 1420 | 9965 | 7.0 | 1.0500 | |
| POLANIMO-BUXTON 1 | 3 | X | 190.5S | 153.9W | CAMBRIAN | 1136.9 | | 10/21/70 | 0 | 72000 | 6000 | 0 | 0 | 260 | 78260 | 5.9 | 1.1960 | |
| POLANIMO-BUXTON 1 | 3 | X | 190.5S | 153.9W | CAMBRIAN | 1136.9 | | 07/16/70 | 0 | 73000 | 6000 | 0 | 0 | 260 | 79260 | 5.9 | 1.1960 | |
| SUBEO-BUXTON 1 | 8 | VIII | 457.2N | 152.4W | CAMBRIAN | 1132.6 | | 03/13/68 | 0 | 43800 | 5600 | 0 | 0 | 250 | 49650 | 4.6 | 1.1930 | |
| IMP. 761 | 11 | V | 304.8N | 304.8E | CAMBRIAN | 1149.1 | | 11/15/60 | 38272 | 62000 | 8991 | 194895 | 27 | 6 | 304191 | 6.3 | 1.2119 | 0.0460 |
| BUXTON 401 RALEIGH | 16 | A | 108.2S | 271.2E | CAMBRIAN | 1157.3 | | 12/01/71 | 0 | 38000 | 5100 | 0 | 125 | 360 | 43585 | 8.2 | 1.2040 | |
| CARR ET AL | 22 | XI | 469.4N | 181.1W | CAMBRIAN | 1176.5 | BAILER | 04/06/64 | 44498 | 45200 | 6561 | 167560 | 100 | 240 | 264159 | 6.2 | 1.1848 | 0.0400 |
| *** TOWNSHIP ROMNEY** | | | | | | | | | | | | | | | | | | |
| IMP. 688 WARS 1 | 18 | VI | 189.0N | 91.4E | CAMBRIAN | 1072.0 | | 03/01/59 | 19987 | 31600 | 14094 | 127800 | 59 | 4 | 193544 | 7.4 | 1.1425 | 0.0580 |
| *** TOWNSHIP ZONE** | | | | | | | | | | | | | | | | | | |
| FOREST VIEW MOTEL RR#4 BOTHWEL | 0 | | | | DRIFT | | | 04/17/62 | 0 | 138 | 26 | 16 | 337 | 0 | 517 | 7.7 | 1.0000 | |
| IMP. ZONE 3-4-IV | 4 | IV | 152.4N | 487.7W | DETROIT R. | 128.0 | BAILER | 12/04/61 | 0 | 2360 | 1677 | 1931 | 693 | 32 | 6693 | 7.6 | 1.0279 | 0.2400 |
| IMP. ZONE 3-4-IV | 4 | IV | 152.4N | 487.7W | GUELPH | 343.2 | BAILER | 12/14/61 | 13133 | 11160 | 340 | 40825 | 312 | 0 | 65770 | 9.5 | 1.0620 | 1.0200 |
| **** COUNTY LAKE ERIE** | | | | | | | | | | | | | | | | | | |
| *** TOWNSHIP** | | | | | | | | | | | | | | | | | | |
| CONSUMERS 13252(A) | 222 | T | | | DRIFT | | | | 0 | 33.6 | 8.6 | 0 | 54 | 72 | 168.2 | 5.8 | | |
| CONSUMERS 13252(C) | 222 | T | | | DRIFT | | | | 28 | 36 | 10 | 64 | 78 | 25 | 241 | 6.7 | | |
| CONSUMERS 13338 | 159 | U | | | HAMILTON | 156.7 | DST 3 TOP | 06/15/76 | 736 | 78400 | 0 | 140000 | 232 | 182 | 219550 | 8.2 | | |
| C.W.P. DOVER 69-14 | 47 | X | | | DETROIT R. | | | 07/19/72 | 40308 | 26164 | 4811 | 122177 | 10 | 385 | 193855 | 4.4 | 1.1415 | 0.0580 |
| CONSUMERS 13108 | 0 | | | | ORISKANY | 272.5 | DST 1 TOP | 06/07/71 | 13960 | 7690 | 4280 | 42400 | 17 | 742 | 69089 | 7.0 | 1.0500 | 0.1000 |
| CONSUMERS 13108 | 0 | | | | ORISKANY | 272.5 | DST 1 MIDDLE | 06/07/71 | 32200 | 19840 | 17982 | 108000 | 54 | 3910 | 181986 | 6.5 | 1.1320 | 0.1000 |
| CONSUMERS 13108 | 0 | | | | ORISKANY | 272.5 | DST 1 BOTTOM | 06/07/71 | 34226 | 20500 | 7890 | 112800 | 44 | 472 | 175932 | 7.4 | 1.1250 | 0.1000 |
| CONSUMERS 13329 | 125 | F | | | BASS I.S | 237.7 | MIDDLE FLUID | 05/19/75 | 4830 | 110400 | 972 | 206000 | 164 | 0 | 322366 | 8.3 | 1.2600 | 0.0620 |
| COMSUMERS 13329 | 125 | F | | | BASS I.S | 237.7 | TOP FLUID | 05/19/75 | 4462 | 109600 | 972 | 204000 | 150 | 0 | 319184 | 7.9 | 1.2600 | |

## APPENDIX VI. WATER ANALYSIS SUMMARY.

| WELL NAME | LOT | CONC | N-S | E-W | FORMATION | DEPTH | SAMPLE FROM | DATE | NA | CA | MG | CL | HCO3 | SO4 | TDS | PH | DENSITY | RESIST |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CONSUMERS 13340 | 158 | B | | | BASS I.S | 249.9 | DST 2 TOP | 05/13/76 | 37675 | 91000 | 14094 | 181000 | 1174 | 185 | 325128 | 8.9 | | 0.0655 |
| CONSUMERS 13340 | 158 | B | | | BASS I.S | 249.9 | DST 2 BOTTOM | 05/13/76 | 21600 | 57600 | 2670 | 142000 | 740 | 998 | 225608 | 8.9 | | 0.0626 |
| CONSUMERS 13340 | 158 | B | | | BASS I.S | 249.9 | DST 2 MIDDLE | 05/13/76 | 63914 | 79200 | 486 | 170500 | 1013 | 498 | 315611 | 9.0 | | 0.0622 |
| CONSUMERS 13530 | 284 | S | | | A-2,A-1,GUEL | 454.2 | MIDDLE | 09/08/78 | 46966 | 48000 | 4374 | 170000 | 307 | 381 | 270028 | 7.9 | | |
| CONSUMERS 13530 | 284 | S | | | A-2,A-1,GUEL | 454.2 | BOTTOM | 09/08/78 | 24380 | 21600 | 2916 | 84000 | 244 | 494 | 133634 | 7.7 | | |
| CONSUMERS 13368 | 222 | M | | | A-1 | 509.9 | | 09/05/75 | 0 | 198000 | 0 | 348000 | 5 | 31 | 546036 | 4.4 | | |
| CONSUMERS 13471 | 55 | L | | | A-1 GUELPH | 329.2 | 3 | 06/15/78 | 6842 | 116800 | 3402 | 226000 | 0 | 26 | 353070 | 8.6 | | |
| CONSUMERS 13471 | 55 | L | | | A-1 GUELPH | 329.2 | 4 | 06/15/78 | 4600 | 89600 | 1944 | 170000 | 0 | 33 | 266177 | 9.0 | | |
| CONSUMERS 13471 | 55 | L | | | A-1 GUELPH | 329.2 | 1 | 06/14/78 | 8832 | 89600 | 2430 | 178000 | 0 | 21 | 278883 | 9.0 | | |
| CONSUMERS 13471 | 55 | L | | | A-1 GUELPH | 329.2 | 2 | 06/14/78 | 5060 | 89600 | 2430 | 172000 | 0 | 27 | 269117 | 9.2 | | |
| CONSUMERS 13631 | 181 | M | | | A-1 GUELPH | 457.0 | DST 1 TOP | 07/29/79 | 7383 | 84000 | 972 | 162000 | 2304 | 0 | 256659 | 7.5 | | |
| CONSUMERS 13631 | 181 | M | | | A-1 GUELPH | 457.0 | DST 1 BOTTOM | 07/29/79 | 2576 | 68000 | 1458 | 128000 | 1594 | 0 | 201628 | 7.5 | | |
| CONSUMERS 13634 | 181 | S | | | A-1 GUELPH | 469.0 | DST 2 TOP | 08/26/79 | 745 | 97200 | 5103 | 188000 | 0 | 123 | 291171 | 9.6 | | |
| CONSUMERS 13508 | 221 | T | | | A-1 GUELPH | 499.9 | MIDDLE | 07/12/78 | 12535 | 83200 | 1944 | 168000 | 7003 | 416 | 273098 | 9.2 | | |
| CONSUMERS 13508 | 221 | T | | | A-1 GUELPH | 499.9 | TOP | 07/12/78 | 18469 | 84800 | 1458 | 178000 | 7942 | 354 | 291023 | 9.2 | | |
| CONSUMERS 13508 | 221 | T | | | A-1 GUELPH | 499.9 | BOTTOM | 07/12/78 | 9329 | 84000 | 1458 | 164000 | 5531 | 354 | 264672 | 9.3 | | |
| CONSUMERS 13376 | 223 | K | | | A-1 GUELPH | 520.0 | DST 1 BOTTOM | 07/22/76 | 6302 | 84000 | 1944 | 1640004 | 15340 | 8.3 | 671594.3 | | | |
| CONSUMERS 13376 | 223 | K | | | A-1 GUELPH | 520.0 | DST 1 MUD TANK | 07/22/76 | 18906 | 84000 | 0 | 178000 | 232 | 173 | 281311 | 8.2 | | |
| CONSUMERS 13376 | 223 | K | | | A-1 GUELPH | 520.0 | DST 1 TOP | 07/22/76 | 12121 | 91200 | 0 | 180000 | 622 | 357 | 284300 | 7.6 | | |
| CONSUMERS 13386 | 223 | S | | | A-1 GUELPH | 508.7 | DST TOP | 07/06/76 | 2875 | 110400 | 0 | 200200 | 183 | 100 | 313758 | 7.4 | | |
| CONSUMERS 13386 | 223 | S | | | A-1 GUELPH | 508.7 | DST BOTTOM | 07/06/76 | 966 | 104000 | 0 | 186000 | 134 | 51 | 291151 | 7.3 | | |
| CONSUMERS 13179 | 0 | | | | GUELPH | 525.8 | DST 1 TOP FLUID | | 0 | 19200 | 388 | 0 | 31.8 | 1870 | 21489.8 | 9.3 | | |
| CONSUMERS 13574 | 57 | V | | | GUELPH | 342.5 | DST 2 TOP | 06/02/79 | 1886 | 100000 | 4374 | 190000 | 4782 | 0 | 301042 | 9.2 | | |
| CONSUMERS 13055 | 119 | V | | | GUELPH | 411.8 | DST 1 ABOV TOOL | 06/04/71 | 2324 | 4000 | 1460 | 38000 | 0 | 12330 | 58114 | 7.6 | 1.1375 | |
| CONSUMERS 13055 | 119 | V | | | GUELPH | 411.8 | DST 1 18M ABOV | 06/04/71 | 2820 | 4400 | 2180 | 38000 | 0 | 2672 | 50072 | | | |
| CONSUMERS 13120 | 119 | X | | | GUELPH | 399.4 | DST 2 | 09/23/71 | 835 | 0 | 972 | 3600 | 22 | 740 | 6169 | 7.3 | 0.9874 | 0.1000 |
| CONSUMERS 13110 | 119 | Y | | | GUELPH | 393.8 | DST 1 ABOV TOOL | 07/15/71 | 62160 | 11200 | 3300 | 72000 | 86 | 5800 | 154546 | 6.8 | 1.0880 | 0.1000 |
| CONSUMERS 13110 | 119 | Y | | | GUELPH | 393.8 | DST 1 9M ABOVE | 07/15/71 | 42960 | 1120 | 2920 | 72000 | 81 | 6600 | 125681 | 7.0 | 1.0880 | 0.1000 |
| CONSUMERS 13090 | 124 | D | | | GUELPH | | | 08/01/71 | 4570 | 3220 | 1220 | 16000 | 95.2 | 373 | 25478.2 | 7.3 | 1.0860 | |
| CONSUMERS 13132 | 124 | G | | | GUELPH | | GAS FLOWLINE | 09/22/71 | 10520 | 960 | 1170 | 20200 | 61 | 1560 | 34471 | 8.2 | 1.0285 | 0.1000 |
| ANSCHUTZ 4 L.ERIE 128-Q-IV | 128 | Q | | | GUELPH | 402.0 | DST 3 BOTTOM | 10/15/80 | 81000 | 30449 | 3393 | 192694 | 162 | 1340 | 309038 | 7.2 | 1.2136 | 0.0410 |
| ANSCHUTZ 4 L.ERIE 128-Q-IV | 128 | Q | | | GUELPH | 425.2 | DST 1 BOTTOM | 10/14/80 | 70100 | 33774 | 4090 | 182715 | 11 | 47 | 290737 | 4.8 | 1.1991 | 0.0460 |
| ANSCHUTZ 4 L.ERIE 128-Q-IV | 128 | Q | | | GUELPH | 416.1 | DST 2 TOP | 10/15/80 | 35200 | 15915 | 2011 | 89354 | 76 | 202 | 142758 | 6.1 | 1.1003 | 0.0620 |
| ANSCHUTZ 4 L.ERIE 128-Q-IV | 128 | Q | | | GUELPH | 402.0 | DST 3 MIDDLE | 10/15/80 | 76200 | 32361 | 3786 | 189947 | 7 | 1252 | 303553 | 4.8 | 1.2111 | 0.0410 |
| ANSCHUTZ 4 L.ERIE 128-Q-IV | 128 | Q | | | GUELPH | 402.0 | DST 3 TOP | 10/15/80 | 39200 | 14928 | 1455 | 93337 | 47 | 1194 | 150161 | 6.5 | 1.3596 | 0.0610 |
| ANSCHUTZ 4 L.ERIE 128-Q-IV | 128 | Q | | | GUELPH | 425.2 | DST 1 MIDDLE | 10/14/80 | 67100 | 32103 | 3649 | 173707 | 15 | 137 | 276711 | 4.8 | 1.1903 | 0.0460 |
| ANSCHUTZ 4 L.ERIE 128-Q-IV | 128 | Q | | | GUELPH | 425.2 | DST 1 TOP | 10/14/80 | 34000 | 15778 | 1845 | 86506 | 69 | 147 | 138345 | 6.6 | 1.0972 | 0.0650 |
| ANSCHUTZ 4 L.ERIE 128-Q-IV | 128 | Q | | | GUELPH | 416.1 | DST 2 BOTTOM | 10/15/80 | 76400 | 35040 | 3908 | 192612 | 13 | 199 | 308172 | 5.3 | 1.2146 | 0.0410 |
| ANSCHUTZ 4 L.ERIE 128-Q-IV | 128 | Q | | | GUELPH | 416.1 | DST 2 MIDDLE | 10/15/80 | 73500 | 23873 | 4055 | 184676 | 41 | 119 | 286264 | 5.3 | 1.2003 | 0.0420 |
| CONSUMERS 13274 | 158 | C | | | GUELPH | 397.8 | DST 1 | 10/12/73 | 12397 | 81600 | 10206 | 194000 | 215 | 55 | 298473 | 8.1 | | |
| CONSUMERS 13403 | 158 | D | | | GUELPH | 405.4 | DST 2 BOTTOM | 06/15/77 | 128929 | 225247 | 0 | 350000 | 4026 | 150 | 708312 | 8.2 | 1.5300 | |
| CONSUMERS 13272 | 158 | I | | | GUELPH | 392.9 | DST 1 MIDDLE | 09/28/73 | 7843 | 97600 | 9720 | 214000 | 171 | 0 | 329334 | 7.0 | | |
| CONSUMERS 13165 | 158 | J | | | GUELPH | 407.8 | WELL HEAD | 08/26/72 | 0 | 163200 | 2916 | 284000 | 0 | 0 | 450116 | 6.6 | | 0.0200 |
| CONSUMERS 13165 | 158 | J | | | GUELPH | 389.8 | MIDDLE | 08/26/72 | 0 | 163200 | 7776 | 300000 | 0 | 0 | 470976 | 7.8 | | 0.0300 |
| CONSUMERS 13165 | 158 | J | | | GUELPH | 389.8 | TOP PACKER | 08/26/72 | 0 | 171200 | 5832 | 8788 | 0 | 0 | 185820 | 6.4 | | 0.0600 |
| CONSUMERS 13165 | 158 | J | | | GUELPH | 407.8 | ABOVE PACKER | 08/26/72 | 0 | 163200 | 5832 | 296000 | 0 | 0 | 465032 | 6.4 | | 0.0500 |
| CONSUMERS 13165 | 158 | J | | | GUELPH | 389.8 | | 08/26/72 | 14007 | 160000 | 4860 | 320000 | 0 | 0 | 498867 | 6.8 | | 0.0900 |
| CONSUMERS 13273 | 158 | K | | | GUELPH | 399.3 | DST 2 220M ABOV | 10/17/73 | 2139 | 56800 | 3402 | 113600 | 156 | 650 | 176747 | 7.6 | | |
| CONSUMERS 13273 | 158 | K | | | GUELPH | 399.3 | DST 2 IN TOOL | 10/17/73 | 16721 | 27200 | 3402 | 83600 | 229 | 553 | 131705 | 8.7 | | |
| CONSUMERS 13273 | 158 | K | | | GUELPH | 399.3 | DST 2 90M ABOV | 10/17/73 | 16399 | 28000 | 3888 | 86000 | 215 | 498 | 135000 | 8.8 | | |
| CONSUMERS 13481 | 159 | G | | | GUELPH | 425.2 | DST 2 TOP | 09/27/78 | 0 | 76000 | 486 | 130000 | 329 | 288 | 207103 | 9.4 | | |
| CONSUMERS 13549 | 159 | J | | | GUELPH | 390.1 | DST 1 BOTTOM | 09/10/78 | 12622 | 3200 | 486 | 26000 | 112 | 689 | 43109 | 7.0 | | |
| CONSUMERS 13411 | 186 | F | | | GUELPH | 460.2 | DST 2 BOTTOM | 08/26/77 | 27117 | 24000 | 3888 | 95000 | 137 | 990 | 151132 | 7.5 | | |
| CONSUMERS 13615 | 220 | D | | | GUELPH | 633.5 | DST 1 TOP | 07/24/79 | 3220 | 68800 | 1944 | 130000 | 2025 | 0 | 205989 | 9.4 | | |
| CONSUMERS 13513 | 221 | I | | | GUELPH | 499.9 | DST 1 PIPE | 07/23/78 | 8478 | 63200 | 972 | 128000 | 98 | 55 | 200803 | 6.8 | | |
| CONSUMERS 13261 | 221 | L | | | GUELPH | 524.3 | DST 3 18M ABOVE | 08/29/77 | 7176 | 70400 | 1458 | 140000 | 122 | 311 | 219467 | 6.6 | | |
| CONSUMERS 13261 | 221 | L | | | GUELPH | 502.3 | TOP | 08/29/77 | 7337 | 98400 | 1458 | 190000 | 195 | 212 | 297602 | 6.6 | | |
| CONSUMERS 13261 | 221 | L | | | GUELPH | 502.3 | DST 1 | 08/29/77 | 1150 | 92800 | 1944 | 172000 | 61 | 184 | 268139 | 6.5 | | |
| CONSUMERS 13350 | 221 | P | | | GUELPH | 519.4 | BOT OF 9M FLUID | 07/10/75 | 2484 | 163200 | 1458 | 297000 | 1222 | 0 | 465364 | 8.3 | 1.3700 | |
| CONSUMERS 13350 | 221 | P | | | GUELPH | 519.4 | TOP OF 9M FLUID | 07/10/75 | 6578 | 152800 | 972 | 284000 | 357 | 0 | 444707 | 8.1 | 1.3200 | |
| CONSUMERS 13350 | 221 | P | | | GUELPH | 519.4 | MID OF 9M FLUID | 07/10/75 | 2783 | 157600 | 3645 | 294000 | 1054 | 0 | 459082 | 8.3 | 1.3700 | |
| CONSUMERS 13350 | 221 | P | | | GUELPH | 519.4 | DST TOP | 06/22/75 | 6578 | 152800 | 972 | 384000 | 357 | 0 | 544707 | 8.1 | 1.3200 | |
| CONSUMERS 13350 | 221 | P | | | GUELPH | 519.4 | DST MIDDLE | 06/22/75 | 2783 | 157600 | 3645 | 294000 | 1054 | 0 | 459082 | 8.3 | 1.3700 | |

## APPENDIX VI. WATER ANALYSIS SUMMARY.

| WELL NAME | LOT | CONC | N-S | E-W | FORMATION | DEPTH | SAMPLE FROM | DATE | NA | CA | MG | CL | HCO3 | SO4 | TDS | PH | DENSITY | RESIST |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CONSUMERS 13350 | 221 | P | | | GUELPH | 519.4 | DST BOTTOM | 06/22/75 | 2484 | 163200 | 1458 | 297000 | 1222 | 0 | 465364 | 8.3 | 1.3700 | |
| CONSUMERS 13255 | 222 | K | | | GUELPH | | | 08/06/73 | 4071 | 62400 | 24786 | 190000 | 107 | 0 | 281364 | 9.7 | | |
| CONSUMERS 13256 | 222 | L | | | GUELPH | 524.2 | DST 3 BOTTOM | 08/14/73 | 7820 | 104800 | 18954 | 254000 | 256 | 0 | 385830 | 8.2 | | |
| CONSUMERS 13256 | 222 | L | | | GUELPH | 498.9 | DST 2 TOP | 08/13/73 | 4761 | 115200 | 39366 | 328000 | 488 | 0 | 487815 | 7.3 | | |
| CONSUMERS 13256 | 222 | L | | | GUELPH | 524.2 | DST 3 TOP | 08/15/73 | 10005 | 88800 | 26730 | 252000 | 322 | 0 | 377857 | 8.0 | | |
| CONSUMERS 13256 | 222 | L | | | GUELPH | 524.2 | DST 3 MIDDLE | 08/15/73 | 6336 | 92000 | 26730 | 252000 | 283 | 28 | 377377 | 7.4 | | |
| CONSUMERS 13256 | 222 | L | | | GUELPH | 501.1 | DST 1 TOP | 08/13/73 | 12650 | 136000 | 24786 | 334000 | 473 | 0 | 507909 | 7.2 | | |
| CONSUMERS 13260 | 222 | P | | | GUELPH | 530.3 | 152M ABOVE TOOL | 08/31/73 | 7406 | 120000 | 10692 | 256000 | 117 | 14 | 394229 | 6.2 | | |
| CONSUMERS 13260 | 222 | P | | | GUELPH | 530.3 | 73M ABOVE TOOL | 08/31/73 | 31832 | 35700 | 21870 | 176000 | 102 | 304 | 265808 | 6.6 | | |
| CONSUMERS 13260 | 222 | P | | | GUELPH | 530.3 | ABOVE TOOL | 08/31/73 | 41952 | 40800 | 5832 | 154000 | 225 | 374 | 243183 | 6.6 | | |
| CONSUMERS 13259 | 222 | S | | | GUELPH | 525.1 | DST 1 | 08/23/73 | 7774 | 113600 | 15066 | 258000 | 205 | 138 | 394783 | 6.7 | | 0.0850 |
| CONSUMERS 13259 | 222 | S | | | GUELPH | 525.2 | DST 1 BOTTOM | 08/20/73 | 10442 | 108800 | 19926 | 268000 | 327 | 0 | 407495 | 7.8 | | 0.0800 |
| CONSUMERS 13156A | 222 | U | | | GUELPH | 525.8 | DST 1 BOTTOM | 11/01/72 | 0 | 13920 | 2700 | 0 | 0 | 820 | 17440 | 8.4 | | 0.0610 |
| CONSUMERS 13389 | 222 | X | | | GUELPH | 507.2 | TOP | 08/15/76 | 11477 | 98400 | 0 | 192000 | 476 | 165 | 302518 | 8.6 | | |
| CONSUMERS 13389 | 222 | X | | | GUELPH | 507.2 | DST 1 BOTTOM | 08/15/76 | 10281 | 100000 | 2430 | 200000 | 525 | 195 | 313431 | 8.6 | | |
| CONSUMERS 13243 | 223 | A | | | GUELPH | 594.4 | DST 2 BOTTOM | 06/16/73 | 54993 | 32000 | 1440 | 184000 | 140 | 325 | 272898 | 7.1 | | |
| CONSUMERS 13243 | 223 | A | | | GUELPH | 594.4 | DST 2 MIDDLE | 06/16/73 | 24840 | 69600 | 6240 | 180800 | 284 | 410 | 282174 | 6.9 | | |
| CONSUMERS 13243 | 223 | A | | | GUELPH | 594.4 | DST 2 MIDDLE | 06/16/73 | 10258 | 100800 | 5280 | 210000 | 332 | 350 | 327020 | 7.1 | | |
| CONSUMERS 13364 | 223 | G | | | GUELPH | 513.6 | BOT ABOVE TOOL | 07/02/75 | 3335 | 138000 | 0 | 250000 | 100 | 65 | 391500 | 5.4 | 1.3200 | |
| CONSUMERS 13364 | 223 | G | | | GUELPH | 513.6 | MID OF 23M FLUI | 07/02/75 | 4646 | 138000 | 0 | 252000 | 122 | 26 | 394794 | 5.5 | | |
| CONSUMERS 13364 | 223 | G | | | GUELPH | 513.6 | TOP OF 23M FLUI | 07/02/75 | 5934 | 138000 | 0 | 254000 | 105 | 46 | 398085 | 5.6 | 1.2800 | |
| CONSUMERS 13161 | 223 | H | | | GUELPH | 517.6 | DST 3 TOP | 07/24/72 | 20000 | 4800 | 1944 | 30000 | 24 | 20600 | 77368 | 8.3 | | |
| CONSUMERS 13161 | 223 | H | | | GUELPH | 517.6 | DST 3 BOTTOM | 07/21/72 | 48800 | 16000 | 4850 | 160000 | 20 | 1050 | 230720 | 7.6 | | |
| CONSUMERS 13161 | 223 | H | | | GUELPH | 517.6 | DST 3 BOTTOM | 07/24/72 | 243 | 96 | 19 | 8000 | 20 | 1160 | 9538 | 8.2 | | |
| CONSUMERS 13161 | 223 | H | | | GUELPH | 525.5 | DST 2 MIDDLE | 07/21/72 | 38300 | 14400 | 6800 | 104000 | 13 | 845 | 164358 | 7.7 | | |
| CONSUMERS 13161 | 223 | H | | | GUELPH | 525.5 | DST 2 TOP | 07/21/72 | 45400 | 16000 | 4860 | 108000 | 22 | 6630 | 180912 | 7.7 | | |
| CONSUMERS 13161 | 223 | H | | | GUELPH | | | 08/02/72 | 119140 | 19200 | 2044 | 224000 | 0 | 842 | 365226 | 7.0 | | |
| CONSUMERS 13161 | 223 | H | | | GUELPH | 516.3 | DST 1 TOP | 07/20/72 | 3000 | 0 | 0 | 1520 | 19 | 4200 | 8739 | 7.1 | | |
| CONSUMERS 13241 | 223 | H | | | GUELPH | | BOTTOM HOLE | 05/25/73 | 0 | 80000 | 7494 | 160000 | 56 | 211 | 247761 | 7.7 | 1.1950 | 0.0750 |
| CONSUMERS 13241 | 223 | H | | | GUELPH | | BOTTOM (DUSTER) | 05/26/73 | 805 | 68800 | 2306 | 141600 | 54 | 281 | 213846 | 7.1 | 1.1610 | |
| CONSUMERS 13241 | 223 | H | | | GUELPH | | TOP (DUSTER) | 05/26/73 | 10925 | 72000 | 1440 | 147600 | 54 | 201 | 232220 | 6.9 | 1.1620 | |
| CONSUMERS 13374 | 224 | A | | | GUELPH | 522.7 | DST 2 TOP FLUID | 05/31/76 | 30751 | 107200 | 4374 | 250000 | 146 | 630 | 393101 | 7.7 | | |
| CONSUMERS 13374 | 224 | A | | | GUELPH | 522.7 | DST 2 TOP | 05/31/76 | 0 | 140000 | 0 | 248000 | 134 | 10 | 388144 | 7.7 | | |
| CONSUMERS 13374 | 224 | A | | | GUELPH | 522.7 | DST 1 TOP | 05/28/76 | 2047 | 141600 | 0 | 254000 | 854 | 15 | 398516 | 7.6 | | |
| CONSUMERS 13187 | 226 | V | | | GUELPH | 516.6 | DST 1 | 09/12/72 | 6700 | 91200 | 0 | 172000 | 62 | 195 | 270157 | 8.9 | | |
| CONSUMERS 13187 | 226 | V | | | GUELPH | | BEFORE DST 1 | 09/12/72 | 3910 | 71200 | 0 | 132000 | 58 | 380 | 207548 | 9.2 | | |
| CONSUMERS 13189 | 226 | V | | | GUELPH | 638.6 | TOP COLUMN | 09/20/72 | 8900 | 4160 | 1065 | 24000 | 44 | 288 | 38457 | 6.8 | 1.0350 | |
| CONSUMERS 13163 | 240 | C | | | GUELPH | 531.9 | DST 1 BOTTOM | 08/06/72 | 64331 | 4000 | 0 | 106000 | 0 | 576 | 174907 | 8.8 | | 0.0530 |
| CONSUMERS 13163 | 240 | C | | | GUELPH | 525.5 | DST 3 BOTTOM | 08/10/72 | 47426 | 4000 | 0 | 80000 | 0 | 576 | 132002 | 8.2 | | |
| CONSUMERS 13163 | 240 | C | | | GUELPH | 539.5 | BOTTOM HOLE | 08/04/72 | 52670 | 3200 | 486 | 88000 | 0 | 576 | 144932 | 6.9 | | |
| CONSUMERS 13163 | 240 | C | | | GUELPH | 539.5 | DST 1 BOTTOM | | 73416 | 4000 | 0 | 120000 | 0 | 576 | 197992 | 8.0 | | 0.0680 |
| CONSUMERS 13379 | 243 | C | | | GUELPH | 509.0 | DST 1 TOP | 09/02/76 | 5083 | 85600 | 972 | 162000 | 537 | 424 | 254616 | 7.9 | | |
| CONSUMERS 13379 | 243 | C | | | GUELPH | 677.3 | DST 2(2) | 09/02/76 | 8211 | 85600 | 0 | 164000 | 220 | 650 | 258681 | 8.3 | | |
| CONSUMERS 13379 | 243 | C | | | GUELPH | 677.3 | DST 2(1) | 09/02/76 | 4324 | 85600 | 0 | 150000 | 122 | 708 | 240754 | 8.2 | | |
| CONSUMERS 13160 | 282 | Q | | | GUELPH | 629.4 | DST 4 | | 29693 | 5920 | 583 | 580000 | 0 | 179 | 616375 | 7.7 | | |
| CONSUMERS 13618 | 283 | N | | | GUELPH | 459.0 | BOTTOM HOLE | 10/26/79 | 15456 | 96000 | 972 | 196 | 0 | 0 | 1126241 | | | |
| CONSUMERS 13618 | 283 | N | | | GUELPH | 459.0 | BOTTOM HOLE MID | 09/06/79 | 32821 | 61600 | 1458 | 164000.2 | 93 | 0 | 259972.2 | 8.7 | | |
| CONSUMERS 13618 | 283 | N | | | GUELPH | 459.0 | DST 1 TOP | 09/06/79 | 27007 | 64000 | 1944 | 176000 | 561 | 0 | 269512 | 8.8 | | |
| CONSUMERS 13503 | 285 | J | | | GUELPH | 392.6 | DST 1 BOTTOM | 06/20/78 | 7475 | 132000 | 2888 | 256000 | 1897 | 124 | 400384 | 8.1 | | |
| CONSUMERS 13503 | 285 | J | | | GUELPH | 392.6 | DST 1 MIDDLE | 06/30/78 | 3786 | 52800 | 972 | 100000 | 3233 | 132 | 160923 | 8.9 | | |
| CONSUMERS 13503 | 285 | J | | | GUELPH | 392.6 | DST 1 TOP | 06/20/78 | 10686 | 76800 | 1944 | 156000.3 | 123 | 281 | 245834.3 | 8.9 | | |
| CONSUMERS 13503 | 285 | J | | | GUELPH | 407.8 | DST 3 TOP | 06/21/78 | 1095 | 2400 | 97 | 6000 | 78 | 255 | 9925 | 7.4 | | |
| PEMBINA CON-SUP L.ERIE 289-S-2 | 289 | S | | | GUELPH | 334.0 | DST 1 | 09/11/82 | 6200 | 99809 | 238 | 185241 | 1916 | 385 | 293789 | 9.0 | 1.2225 | 0.0450 |
| PEMBINA CON-SUP L.ERIE 353-M-4 | 353 | M | | | GUELPH | 290.0 | DST 1 | 08/30/82 | 7000 | 79958 | 1389 | 156108 | 443 | 376 | 245274 | 7.4 | 1.1682 | 0.0460 |
| AMERANDA HESS ESSEX 2 | 359 | F | | | GUELPH | | SWAB | 10/08/69 | 215 | 176 | 54 | 489 | 105 | 339 | 1378 | 7.1 | 1.0040 | 4.3500 |
| PEMBINA ET AL L.ERIE 377-B-1 | 377 | B | | | GUELPH | 314.0 | DST 1 | 09/16/82 | 18000 | 47725 | 1318 | 115253 | 836 | 1026 | 184158 | 8.2 | 1.1378 | 0.0500 |
| PEMBINA CAN. SUPERIOR LAKE | 409 | M | | | GUELPH | | SAMPLE 1 (TOP) | 09/11/81 | 5400 | 63164 | 514 | 121414 | 277 | 361 | 191130 | 8.2 | 1.1365 | 0.0420 |
| CONSUMERS 13300 | 94 | K | | | THOR GRIM | 434.6 | DST 1 MIDDLE | 09/01/74 | 4715 | 84000 | 0 | 156000 | 339 | 0 | 245054 | 7.1 | | |
| CONSUMERS 13300 | 94 | K | | | THOR GRIM | 434.6 | DST 1 BOTTOM | 09/06/74 | 5106 | 84800 | 0 | 158000 | 339 | 0 | 248245 | 7.1 | | |
| CONSUMERS 13300 | 94 | K | | | THOR GRIM | 434.6 | DST 1 TOP | 09/06/74 | 9016 | 80800 | 0 | 157000 | 297 | 0 | 247113 | 7.1 | | |

## APPENDIX VI. WATER ANALYSIS SUMMARY.

| WELL NAME | LOT | CONC | N-S | E-W | FORMATION | DEPTH | SAMPLE FROM | DATE | NA | CA | MG | CL | HCO3 | SO4 | TDS | PH | DENSITY | RESIST |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CONSUMERS 13170 | 94 | M | | | THOR GRIM | 437.4 | DST 1 BOTTOM | 06/17/72 | 1081 | 92800 | 1944 | 172000 | 0 | 226 | 268051 | 7.1 | | |
| CONSUMERS 13170 | 94 | M | | | THOR GRIM | 437.2 | DST 1 | 06/17/72 | 989 | 92800 | 1844 | 172000 | 0 | 218 | 267851 | 6.8 | | |
| CONSUMERS 13150 | 95 | P | | | THOR GRIM | 452.7 | DST 1 | 07/13/72 | 41700 | 107000 | 9720 | 188000 | 0 | 268 | 346688 | 6.9 | | |
| CONSUMERS 13327 | 95 | U | | | THOR GRIM | 453.5 | DST1 TOP TOOL | 05/01/75 | 4830 | 65600 | 486 | 125000 | 346 | 0 | 196262 | 7.7 | 1.1700 | |
| CONSUMERS 13327 | 95 | U | | | THOR GRIM | 453.5 | DST1 TOP FLUID | 05/01/75 | 3795 | 64800 | 486 | 122000 | 308 | 0 | 191389 | 7.6 | 1.1400 | |
| CONSUMERS 13327 | 95 | U | | | THOR GRIM | 453.5 | DST1 MIDDLE | 05/01/75 | 4163 | 65600 | 486 | 124000 | 269 | 0 | 194518 | 7.8 | 1.0700 | |
| CONSUMERS 13218 | 99 | W | | | THOR GRIM | 480.1 | DST 1 MIDDLE | 07/24/73 | 25944 | 45600 | 17982 | 174000 | 176 | 113 | 263815 | 8.2 | | |
| CONSUMERS 13218 | 99 | W | | | THOR GRIM | 480.1 | DST 1 TOP | 07/24/73 | 7153 | 81600 | 1458 | 160000 | 229 | 113 | 250553 | 8.3 | | |
| CONSUMERS 13218 | 99 | W | | | THOR GRIM | 480.1 | DST 1 BOTTOM | 07/24/73 | 33189 | 45600 | 15552 | 178000 | 166 | 113 | 272620 | 8.1 | | |
| CONSUMERS 13224 | 121 | A | | | THOR GRIM | 469.1 | BOTTOM | 08/07/73 | 15479 | 44000 | 22356 | 168000 | 171 | 80 | 250089 | 7.3 | | |
| CONSUMERS 13224 | 121 | A | | | THOR GRIM | 469.1 | TOP | 08/07/73 | 8119 | 80800 | 4860 | 170000 | 229 | 249 | 264257 | 7.4 | | |
| CONSUMERS 13224 | 121 | A | | | THOR GRIM | 469.1 | MIDDLE | 08/07/73 | 8947 | 62400 | 14094 | 166000 | 181 | 221 | 251843 | 7.4 | | |
| CONSUMERS 13277 | 121 | B | | | THOR GRIM | 467.9 | DST 1 MIDDLE | 10/01/74 | 1265 | 1328 | 136 | 4600 | 34 | 56 | 7419 | 6.7 | | |
| CONSUMERS 13277 | 121 | B | | | THOR GRIM | 467.9 | DST 1 BOTTOM | 10/01/74 | 1748 | 1744 | 185 | 6240 | 59 | 51 | 10027 | 7.1 | | |
| CONSUMERS 13277 | 121 | B | | | THOR GRIM | 476.9 | DST 1 | 10/01/74 | 1242 | 1328 | 146 | 4600 | 39 | 54 | 7409 | 6.7 | | |
| CONSUMERS 13214 | 122 | L | | | THOR GRIM | 488.9 | IN TOOL | | 0 | 112000 | 2400 | 20000 | 98 | 126 | 134624 | 6.8 | | |
| CONSUMERS 13214 | 122 | L | | | THOR GRIM | 488.9 | 30M ABOVE TOOL | | 851 | 104000 | 48000 | 200000 | 102 | 162 | 353115 | 6.7 | | |
| CONSUMERS 13214 | 122 | L | | | THOR GRIM | | TOP TOOL MIDDLE | | 6578 | 104000 | 3840 | 206000 | 98 | 112 | 320628 | 6.7 | | |
| CONSUMERS 13276 | 122 | U | | | THOR GRIM | 504.7 | FLOW LINE | 08/10/74 | 23948 | 22080 | 3791 | 88400 | 344 | 0 | 138563 | 5.6 | | |
| CONSUMERS 13276 | 122 | U | | | THOR GRIM | 504.7 | FLOW LINE | 08/08/74 | 796 | 528 | 0 | 2160 | 5 | 0 | 3489 | 2.3 | | |
| CONSUMERS 13231 | 122 | U | | | THOR GRIM | 506.6 | DST 1 | 08/12/73 | 7751 | 84800 | 1944 | 168000 | 215 | 166 | 262876 | 7.4 | | |
| CONSUMERS 13231 | 122 | U | | | THOR GRIM | 506.6 | DST 1 | 08/12/73 | 9430 | 70400 | 9290 | 168000 | 215 | 166 | 257501 | 7.4 | | |
| CONSUMERS 13130 | 123 | A | | | THOR GRIM | 470.0 | TOP OF DST | 09/30/71 | 37700 | 27200 | 6804 | 124800 | 0 | 205.6 | 196709.6 | 6.4 | 1.1290 | 0.1000 |
| CONSUMERS 13237 | 123 | F | | | THOR GRIM | 477.9 | DST 1 BOTTOM | 08/21/73 | 13248 | 80000 | 5346 | 178000 | 185 | 221 | 277000 | 7.0 | | |
| CONSUMERS 13237 | 123 | F | | | THOR GRIM | 477.9 | DST 2 BOTTOM | 08/21/73 | 14283 | 74400 | 6804 | 174000 | 151 | 249 | 269887 | 7.0 | | |
| CONSUMERS 13237 | 123 | F | | | THOR GRIM | 477.9 | DST 2 TOP | 08/21/73 | 10074 | 79200 | 6804 | 176000 | 181 | 194 | 272453 | 7.1 | | |
| CONSUMERS 13237 | 123 | F | | | THOR GRIM | 477.9 | DST 1 TOP | 08/21/73 | 7912 | 80000 | 3402 | 164000 | 200 | 235 | 255749 | 7.1 | | |
| CONSUMERS 13237 | 123 | F | | | THOR GRIM | 476.7 | DST 4 TOP | 08/22/73 | 13501 | 88000 | 5837 | 194000 | 254 | 194 | 301786 | 7.0 | | |
| CONSUMERS 13237 | 123 | F | | | THOR GRIM | 476.7 | DST 4 MIDDLE | 08/22/73 | 6785 | 91200 | 3402 | 182000 | 278 | 277 | 283942 | 7.1 | | |
| CONSUMERS 13147 | 123 | H | | | THOR GRIM | 482.5 | DST 1 BOTTOM | 05/20/72 | 0 | 92900 | 1940 | 156000 | 0 | 227 | 251067 | 6.5 | | |
| CONSUMERS 13147 | 123 | H | | | THOR GRIM | 482.5 | DST 1 ABOV TOOL | 05/20/72 | 0 | 91400 | 1940 | 152000 | 0 | 257 | 245597 | 6.4 | | |
| CONSUMERS 13147 | 123 | H | | | THOR GRIM | 482.5 | DST 1 MIDDLE | 05/20/72 | 17300 | 59200 | 2920 | 140000 | 0 | 330 | 219750 | 6.7 | | |
| CONSUMERS 13129 | 123 | L | | | THOR GRIM | 483.7 | 37M ABOV TOOL | 09/06/71 | 24847 | 17120 | 3985.2 | 80000 | 0 | 698.9 | 126651.1 | 7.5 | 1.0720 | 0.1000 |
| CONSUMERS 13129 | 125 | F | | | THOR GRIM | 483.7 | TOP TOOL | 09/06/71 | 36500 | 23000 | 4860 | 111000 | 5 | 475 | 175840 | 6.6 | 1.1350 | 0.1000 |
| CONSUMERS 13129 | 125 | F | | | THOR GRIM | 483.7 | 100M ABOV TOOL | 09/06/71 | 1820 | 2240 | 583 | 8000 | 22 | 720 | 13385 | 7.1 | 1.0200 | 0.1000 |
| CONSUMERS 13285 | 125 | W | | | THOR GRIM | 508.7 | DST 1 BOTTOM | 09/12/74 | 6486 | 112800 | 0 | 210000 | 156 | 0 | 329442 | 6.9 | | |
| CONSUMERS 13285 | 125 | W | | | THOR GRIM | 508.7 | DST 1 MIDDLE | 09/12/74 | 5198 | 112800 | 0 | 208000 | 141 | 0 | 326139 | 7.1 | | |
| CONSUMERS 13285 | 125 | W | | | THOR GRIM | 508.1 | DST 1 TOP | 09/12/74 | 7038 | 111200 | 0 | 208000 | 156 | 0 | 326394 | 6.8 | | |
| CONSUMERS 13278 | 126 | E | | | THOR GRIM | 474.0 | DST 1 MIDDLE | 09/20/74 | 10313 | 132000 | 0 | 250000 | 18 | 0 | 392331 | 6.2 | | |
| CONSUMERS 13278 | 126 | E | | | THOR GRIM | 473.9 | DST 1 TOP | 09/20/74 | 12296 | 190000 | 0 | 356000 | 27 | 0 | 558323 | 6.2 | | |
| CONSUMERS 13278 | 126 | E | | | THOR GRIM | 474.0 | DST 1 BOTTOM | 09/20/74 | 10907 | 136000 | 0 | 258000 | 9 | 0 | 404916 | 6.2 | | |
| CONSUMERS 13168 | 126 | F | | | THOR GRIM | 478.5 | TOP | 06/11/72 | 0 | 68600 | 13600 | 108000 | 12.2 | 318 | 190530.2 | 7.3 | | |
| CONSUMERS 13197 | 153 | H | | | THOR GRIM | 527.3 | DST 1 TOP | 09/23/72 | 5520 | 69600 | 0 | 132000 | 78 | 390 | 207588 | 8.5 | | 0.0800 |
| CONSUMERS 13197 | 153 | H | | | THOR GRIM | 527.3 | DST 1 MIDDLE | 09/23/72 | 16600 | 62400 | 0 | 136000 | 73 | 330 | 215403 | 8.2 | | 0.0650 |
| CONSUMERS 13197 | 153 | H | | | THOR GRIM | 527.3 | DST 1 | 09/23/72 | 4370 | 69600 | 0 | 130000 | 73 | 390 | 204433 | 8.4 | | 0.0650 |
| CONSUMERS 13197 | 153 | H | | | THOR GRIM | 527.3 | DST 1 BOTTOM | 09/23/72 | 3910 | 63200 | 0 | 118000 | 73 | 330 | 185513 | 8.4 | | 0.0750 |
| CONSUMERS 13334 | 153 | O | | | THOR GRIM | 528.8 | DST 1 MIDDLE | 08/03/76 | 41492 | 45600 | 3888 | 156000 | 207 | 345 | 247532 | 8.1 | | |
| CONSUMERS 13334 | 153 | O | | | THOR GRIM | 528.8 | DST 1 BOTTOM | 08/03/76 | 38755 | 52000 | 1458 | 156000 | 240 | 355 | 248808 | 8.0 | | |
| CONSUMERS 13334 | 153 | O | | | THOR GRIM | 528.5 | DST 1 TOP | 08/03/76 | 13179 | 57600 | 3402 | 132000 | 244 | 319 | 206744 | 8.9 | | |
| CONSUMERS 13296 | 154 | E | | | THOR GRIM | 513.9 | FLOWLINE | 08/30/74 | 45931 | 45600 | 4617 | 165000 | 452 | 0 | 261600 | 1.1 | | |
| CONSUMERS 13568 | 154 | H | | | THOR GRIM | 532.0 | DST 1 STRADDLE | 07/06/79 | 2944 | 62400 | 1944 | 120000 | 1415 | 0 | 188703 | 9.9 | | |
| CONSUMERS 13184 | 154 | M | | | THOR GRIM | 537.7 | WELL HEAD | 08/03/72 | 15800 | 144000 | 0 | 280000 | 0 | 18 | 439818 | 6.8 | | 0.0750 |
| CONSUMERS 13301 | 154 | Q | | | THOR GRIM | 545.6 | DST 1 TOP TOOL | 10/18/74 | 33051 | 64000 | 1944 | 170000 | 283 | 0 | 269278 | 6.9 | | |
| CONSUMERS 13301 | 154 | Q | | | THOR GRIM | 545.6 | DST 1 MIDDLE | 10/18/74 | 11960 | 96800 | 0 | 190000 | 283 | 0 | 299043 | 6.6 | | |
| CONSUMERS 13301 | 154 | Q | | | THOR GRIM | 545.6 | DST 1 TOP | 10/18/74 | 13225 | 96800 | 0 | 192000 | 198 | 0 | 302223 | 6.6 | | |
| CONSUMERS 13333 | 154 | W | | | THOR GRIM | 539.5 | DST 1 BOTTOM | 08/10/76 | 24725 | 45600 | 3888 | 130000 | 171 | 449 | 204833 | 8.6 | | |
| CONSUMERS 13226 | 155 | A | | | THOR GRIM | 512.4 | DST 1 BOTTOM | 06/22/73 | 58489 | 76000 | 2400 | 232000 | 102 | 345 | 369336 | 7.4 | | |
| CONSUMERS 13226 | 155 | A | | | THOR GRIM | 512.4 | DST 1 TOP | 06/22/73 | 37145 | 64800 | 6730 | 192000 | 122 | 264 | 301061 | 7.1 | | |
| CONSUMERS 13226 | 155 | A | | | THOR GRIM | 512.4 | DST 1 MIDDLE | 06/22/73 | 50117 | 64800 | 6720 | 212000 | 98 | 264 | 333999 | 7.4 | | |
| CONSUMERS 13566 | 155 | H | | | THOR GRIM | 526.0 | DST 1 TOP | 08/28/79 | 10304 | 104800 | 6318 | 220000 | 673 | 0 | 342095 | 8.3 | | |
| CONSUMERS 13566 | 155 | H | | | THOR GRIM | 526.0 | DST 1 STRADDLE | 08/28/79 | 9752 | 104800 | 3888 | 212000 | 761 | 0 | 331201 | 8.3 | | |
| CONSUMERS 13234 | 155 | I | | | THOR GRIM | 521.2 | 27M ABOVE TOOL | 09/01/73 | 19895 | 45600 | 27216 | 192000 | 205 | 111 | 285027 | 7.2 | | |
| CONSUMERS 13234 | 155 | I | | | THOR GRIM | 521.2 | 54M ABOVE TOOL | 09/01/73 | 7452 | 80000 | 9720 | 180000 | 225 | 138 | 277535 | 7.2 | | |

## APPENDIX VI. WATER ANALYSIS SUMMARY.

| WELL NAME | LOT | CONC | N-S | E-W | FORMATION | DEPTH | SAMPLE FROM | DATE | NA | CA | MG | CL | HCO3 | SO4 | TDS | PH | DENSITY | RESIST |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CONSUMERS 13232 | 155 | W | | | THOR GRIM | | DST 1 IN TOOL | 08/03/73 | 6348 | 35600 | 14580 | 116000 | 133 | 55 | 172716 | 7.5 | | |
| CONSUMERS 13232 | 155 | W | | | THOR GRIM | | 76M ABOVE TOOL | 08/03/73 | 5359 | 37600 | 18225 | 129000 | 171 | 249 | 190604 | 7.6 | | |
| CONSUMERS 13201 | 156 | A | | | THOR GRIM | 522.7 | DST 1 | 10/05/72 | 0 | 72000 | 0 | 116000 | 56.7 | 473 | 188529.7 | 7.3 | 1.1904 | 0.0800 |
| CONSUMERS 13201 | 156 | A | | | THOR GRIM | 522.7 | DST 1 | 10/05/72 | 0 | 75200 | 0 | 120000 | 46.4 | 576 | 195822.4 | 7.4 | 1.1594 | 0.0800 |
| CONSUMERS 13201 | 156 | A | | | THOR GRIM | 522.7 | DST 1 | 10/05/72 | 430 | 72000 | 0 | 128000 | 36.6 | 555 | 201021.6 | 7.5 | 1.1778 | 0.0700 |
| CONSUMERS 13308 | 156 | G | | | THOR GRIM | 534.3 | DST 1 TOP | 09/25/74 | 7360 | 106400 | 0 | 200000 | 239 | 113 | 314112 | 7.9 | | |
| CONSUMERS 13308 | 156 | G | | | THOR GRIM | 534.3 | DST 1 BOTTOM | 09/25/74 | 19297 | 92800 | 1944 | 200000 | 161 | 113 | 314315 | 6.9 | | |
| CONSUMERS 13308 | 156 | G | | | THOR GRIM | 534.3 | DST 1 MIDDLE | 09/25/74 | 18147 | 112800 | 0 | 228000 | 239 | 127 | 359313 | 8.0 | | |
| CONSUMERS 13183 | 156 | J | | | THOR GRIM | 528.8 | DST 1 | 08/09/72 | 30360 | 20480 | 3300 | 92000 | 4 | 904 | 147048 | 4.7 | | |
| CONSUMERS 13203 | 156 | K | | | THOR GRIM | 533.1 | DST 1 TOP | 10/16/72 | 7289 | 131200 | 0 | 244000 | 142 | 31 | 382662 | 6.2 | 1.3376 | 0.1200 |
| CONSUMERS 13203 | 156 | K | | | THOR GRIM | 533.1 | DST 1 MIDDLE | 10/16/72 | 0 | 142000 | 0 | 244000 | 117 | 0 | 386117 | 6.3 | 1.3276 | 0.0900 |
| CONSUMERS 13203 | 156 | K | | | THOR GRIM | 533.1 | DST 1 BOTTOM | 10/16/72 | 1341 | 129600 | 0 | 232000 | 95 | 82 | 363118 | 6.5 | 1.2734 | 0.0900 |
| CONSUMERS 13239 | 156 | T | | | THOR GRIM | 544.4 | DST 1 53M FLUID | 08/29/73 | 6302 | 87200 | 3402 | 174000 | 151 | 0 | 2710551 | 0.3 | | |
| CONSUMERS 13239 | 156 | T | | | THOR GRIM | 544.4 | PACKER BOTTOM | 08/29/73 | 6693 | 82400 | 6804 | 176000 | 571 | 0 | 2724681 | 0.1 | | |
| CONSUMERS 13239 | 156 | T | | | THOR GRIM | 544.4 | DST 1 IN TOOL | 08/29/73 | 22437 | 66400 | 8748 | 178000 | 176 | 360 | 276121 | 7.9 | | |
| CONSUMERS 13604 | 156 | U | | | THOR GRIM | 543.0 | DST 1 TOP | 09/08/79 | 1518 | 64000 | 2430 | 122000 | 1444 | 0 | 191392 | 9.6 | | |
| CONSUMERS 13604 | 156 | U | | | THOR GRIM | 543.0 | DST 1 BOTTOM | 09/08/79 | 2668 | 54400 | 972 | 102000 | 1283 | 0 | 161323 | 9.2 | | |
| CONSUMERS 13604 | 156 | U | | | THOR GRIM | 543.0 | DST 1 MIDDLE | 09/08/79 | 0 | 52800 | 1944 | 98000 | 1952 | 0 | 154696 | 9.6 | | |
| CONSUMERS 13240 | 156 | X | | | THOR GRIM | 555.0 | 9M ABOVE TOOL | 09/11/73 | 10074 | 75200 | 5832 | 166000 | 181 | 221 | 257508 | 6.9 | | |
| CONSUMERS 13240 | 156 | X | | | THOR GRIM | 555.0 | DST 1 27M ABOV | 09/11/73 | 6624 | 80800 | 2916 | 162000 | 185 | 221 | 252746 | 6.9 | | |
| CONSUMERS 13240 | 156 | X | | | THOR GRIM | 555.0 | IN TOOL | 09/11/73 | 8395 | 67200 | 12150 | 168000 | 190 | 138 | 256073 | 7.0 | | |
| CONSUMERS 13015 | 157 | Q | | | THOR GRIM | 541.3 | DST 1 TOP | 06/25/71 | 3386 | 1600 | 970 | 10400 | 12 | 640 | 17008 | 7.1 | 1.0320 | 0.1000 |
| CONSUMERS 13729 | 157 | X | | | THOR GRIM | 554.5 | 22M ABOVE TOOL | 06/05/80 | 4510 | 24000 | 1215 | 53000 | 54 | 103 | 82882 | 8.8 | | |
| CONSUMERS 13729 | 157 | X | | | THOR GRIM | 554.5 | TOP TOOL | 06/05/80 | 1474 | 24400 | 1215 | 49000 | 54 | 144 | 76287 | 8.8 | | |
| CONSUMERS 13274 | 158 | C | | | THOR GRIM | 528.5 | DST 2 IN TOOL | 10/12/73 | 7222 | 74400 | 2430 | 150000 | 307 | 332 | 234691 | 7.9 | | |
| CONSUMERS 13274 | 158 | C | | | THOR GRIM | 528.5 | DST 2 9M ABOVE | 10/12/73 | 5819 | 72800 | 3402 | 148000 | 278 | 166 | 230465 | 8.0 | | |
| CONSUMERS 13403 | 158 | D | | | THOR GRIM | 525.8 | DST 2 TOP | 06/16/77 | 153976 | 110121 | 27192 | 290000 | 85 | 4 | 581378 | 8.7 | | |
| CONSUMERS 13403 | 158 | D | | | THOR GRIM | 525.8 | DST 1 BOTTOM | 06/17/77 | 139058 | 154970 | 0 | 290000 | 4026 | 2 | 588056 | 8.2 | 1.3550 | |
| CONSUMERS 13272 | 158 | I | | | THOR GRIM | 528.5 | DST 3 BOTTOM | 10/05/73 | 9913 | 83200 | 486 | 164000 | 420 | 221 | 258240 | 7.7 | | |
| CONSUMERS 13273 | 158 | K | | | THOR GRIM | 536.1 | DST 1 BOTTOM | 10/17/73 | 14559 | 49600 | 3402 | 118800 | 181 | 1217 | 187759 | 8.1 | | |
| CONSUMERS 13273 | 158 | K | | | THOR GRIM | 536.1 | DST 1 TOP | 10/17/73 | 0 | 56800 | 5346 | 112800 | 220 | 1134 | 176300 | 7.8 | | |
| CONSUMERS 13519 | 159 | D | | | THOR GRIM | 518.1 | DST 2 TOP | 08/15/78 | 47840 | 51200 | 5346 | 180000 | 137 | 296 | 284819 | 8.5 | | |
| CONSUMERS 13519 | 159 | D | | | THOR GRIM | 518.1 | DST 2 BOTTOM | 08/15/78 | 61898 | 37600 | 4860 | 176000 | 205 | 403 | 280966 | 8.5 | | |
| CONSUMERS 13519 | 159 | D | | | THOR GRIM | 518.1 | DST 2 MIDDLE | 08/22/78 | 9327 | 160000 | 3888 | 304000 | 1757 | 840 | 479812 | 8.0 | | |
| CONSUMERS 13338 | 159 | U | | | THOR GRIM | 554.1 | DST 2 TOP | 06/13/76 | 10856 | 92000 | 1944 | 185000 | 1108 | 151 | 291059 | 8.3 | 1.2100 | |
| CONSUMERS 13634 | 181 | S | | | THOR GRIM | 593.0 | DST 1 BOTTOM | 08/26/79 | 4531 | 89600 | 6318 | 184000 | 0 | 110 | 284559 | 9.6 | | |
| CONSUMERS 13634 | 181 | S | | | THOR GRIM | 593.0 | DST 1 TOP | 08/26/79 | 0 | 80000 | 972 | 144000 | 0 | 103 | 225075 | 9.5 | | |
| CONSUMERS 13396 | 183 | H | | | THOR GRIM | 571.5 | DST BOTTOM | 06/01/77 | 90256 | 130143 | 0 | 210000 | 366 | 9 | 430774 | 8.6 | 1.2600 | |
| CONSUMERS 13397 | 183 | P | | | THOR GRIM | 586.7 | DST TOP | 06/15/77 | 30273 | 120132 | 0 | 150000 | 85 | 20 | 300510 | 9.5 | 1.2620 | |
| CONSUMERS 13397 | 183 | P | | | THOR GRIM | 585.2 | BOTTOM | 06/15/77 | 30301 | 120132 | 0 | 150000 | 146 | 11 | 300590 | 9.5 | 1.2660 | |
| CONSUMERS 13397 | 183 | P | | | THOR GRIM | 585.2 | DST 1 MIDDLE | 06/15/77 | 40007 | 110121 | 0 | 150000 | 108 | 20 | 300256 | 7.6 | 1.2060 | |
| CONSUMERS 13336 | 183 | T | | | THOR GRIM | 573.6 | BOTTOM | 06/25/76 | 12926 | 104000 | 4860 | 218000 | 0 | 124 | 339910 | 9.2 | | |
| CONSUMERS 13336 | 183 | T | | | THOR GRIM | 573.6 | TOP | 06/25/76 | 3864 | 106400 | 486 | 196000 | 124 | 113 | 306987 | 8.9 | | |
| CONSUMERS 13406 | 184 | I | | | THOR GRIM | 542.5 | DST 1 MIDDLE | 05/21/77 | 77214 | 110120 | 0 | 187500 | 0 | 16 | 374850 | 9.6 | 1.2390 | |
| CONSUMERS 13406 | 184 | I | | | THOR GRIM | 542.5 | DST 1 TOP | 05/21/77 | 80275 | 100111 | 0 | 180000 | 0 | 17 | 360403 | 9.3 | 1.2290 | |
| CONSUMERS 13406 | 184 | I | | | THOR GRIM | 542.5 | DST 1 BOTTOM | 05/21/77 | 76220 | 104114 | 0 | 180000 | 0 | 10 | 360344 | 9.6 | 1.2200 | |
| CONSUMERS 13522 | 185 | A | | | THOR GRIM | 560.8 | DST 1 BOTTOM | 06/23/78 | 5670 | 75200 | 1458 | 146000 | 378 | 216 | 228922 | 8.9 | | |
| CONSUMERS 13522 | 185 | A | | | THOR GRIM | 560.8 | DST 1 MIDDLE | 06/23/78 | 8827 | 91200 | 972 | 178000 | 317 | 198 | 279514 | 8.9 | | |
| CONSUMERS 13522 | 185 | A | | | THOR GRIM | 560.8 | DST 1 TOP | 06/23/78 | 3654 | 64800 | 4860 | 134000 | 1086 | 235 | 208635 | 9.0 | | |
| CONSUMERS 13171 | 185 | C | | | THOR GRIM | 511.2 | TOP | 06/26/72 | 0 | 84800 | 1950 | 148000 | 22 | 196 | 234968 | 7.1 | | 1.4000 |
| CONSUMERS 13171 | 185 | C | | | THOR GRIM | 571.2 | BOTTOM | 06/26/72 | 44600 | 92600 | 1950 | 240000 | 7 | 196 | 379353 | 6.8 | | 1.4000 |
| CONSUMERS 13171 | 185 | C | | | THOR GRIM | 571.2 | MIDDLE | 06/26/72 | 202000 | 92600 | 1950 | 484000 | 12 | 226 | 780788 | 6.9 | | 1.4000 |
| C.W.P. TAYLOR DOVER 69-13(47-R | 47 | R | | | GRIMSBY | | | 09/21/82 | 52274 | 26860 | 4427 | 147101 | 0 | 197 | 230859 | 3.0 | 1.1680 | 0.0490 |
| PEMBINA LAKE ERIE 68-M-3 | 68 | M | | | GRIMSBY | | DST 2 | 06/06/82 | 27000 | 14713 | 1979 | 73638 | 100 | 437 | 117867 | 7.3 | 1.0820 | 0.0690 |
| CONSUMERS 13321 | 95 | K | | | GRIMSBY | 442.0 | TOP FLUID | 05/01/75 | 6279 | 114800 | 243 | 214000 | 113 | 0 | 335435 | 6.3 | 1.2300 | |
| CONSUMERS 13321 | 95 | K | | | GRIMSBY | 442.0 | BOTTOM FLUID | 05/01/75 | 5842 | 107200 | 972 | 202000 | 107 | 0 | 316121 | 6.4 | | |
| CONSUMERS 13321 | 95 | K | | | GRIMSBY | 442.0 | MIDDLE FLUID | 05/01/75 | 4393 | 108800 | 1458 | 204000 | 113 | 0 | 318764 | 6.0 | | |
| CONSUMERS 13217 | 120 | H | | | GRIMSBY | 496.8 | DST 1 IN TOOL | 07/20/73 | 52417 | 36000 | 12636 | 182000 | 68 | 184 | 283305 | 7.0 | | |
| CONSUMERS 13217 | 120 | H | | | GRIMSBY | 496.8 | ABOVE TOOL | 07/20/73 | 31752 | 48800 | 18468 | 190000 | 151 | 226 | 289397 | 7.8 | | |
| CONSUMERS 13217 | 120 | H | | | GRIMSBY | 496.8 | TOP TOOL | 07/20/73 | 59230 | 37600 | 12150 | 194000 | 151 | 212 | 303343 | 6.4 | | |
| CONSUMERS 13229 | 122 | A | | | GRIMSBY | 474.0 | BOTTOM | 06/27/73 | 0 | 89600 | 5189 | 174000 | 88 | 0 | 268877 | 9.1 | | |
| CONSUMERS 13229 | 122 | A | | | GRIMSBY | 473.9 | TOP | 06/27/73 | 2990 | 92000 | 3459 | 178000 | 95 | 0 | 276544 | 9.4 | | |

## APPENDIX VI. WATER ANALYSIS SUMMARY.

| WELL NAME | LOT | CONC | N-S | E-W | FORMATION | DEPTH | SAMPLE FROM | DATE | NA | CA | MG | CL | HCO3 | SO4 | TDS | PH | DENSITY | RESIST |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CONSUMERS 13229 | 122 | A | | | GRIMSBY | 474.0 | MIDDLE | 06/27/73 | 8464 | 84000 | 4036 | 174000 | 71 | 0 | 270571 | 9.2 | | |
| CONSUMERS 13213 | 122 | B | | | GRIMSBY | 487.1 | DST 1 TOP | 06/22/73 | 1587 | 43200 | 5760 | 96000 | 82 | 240 | 146869 | 7.1 | | |
| CONSUMERS 13213 | 122 | B | | | GRIMSBY | 487.1 | DST 1 BOTTOM | 06/22/73 | 35047 | 58400 | 6720 | 162000 | 58 | 274 | 262499 | 7.2 | | |
| CONSUMERS 13213 | 122 | B | | | GRIMSBY | 487.1 | DST 1 MIDDLE | 06/22/73 | 23482 | 75200 | 2880 | 178000 | 68 | 275 | 279905 | 7.3 | | |
| CONSUMERS 13228 | 122 | T | | | GRIMSBY | 495.3 | BOTTOM | 07/28/73 | 2875 | 72800 | 6318 | 152000 | 161 | 304 | 234458 | 7.3 | | |
| CONSUMERS 13228 | 122 | T | | | GRIMSBY | 495.3 | TOP | 07/28/73 | 4876 | 78400 | 7290 | 168000 | 185 | 193 | 258944 | 7.2 | | |
| CONSUMERS 13170 | 122 | T | | | GRIMSBY | 495.3 | MIDDLE | 07/28/73 | 1909 | 76000 | 8262 | 162000 | 161 | 221 | 248553 | 7.3 | | |
| CONSUMERS 13221 | 123 | O | | | GRIMSBY | 489.2 | IN TOOL | 07/13/73 | 4784 | 88000 | 2916 | 172000 | 200 | 141 | 268041 | 7.8 | | |
| CONSUMERS 13221 | 123 | O | | | GRIMSBY | 489.2 | MIDDLE-TOP TOOL | 07/13/73 | 4600 | 89600 | 3402 | 176000 | 185 | 113 | 273900 | 7.5 | | |
| CONSUMERS 13221 | 123 | O | | | GRIMSBY | 489.2 | TOP | 07/13/73 | 4991 | 90400 | 3402 | 178000 | 181 | 141 | 277115 | 7.6 | | |
| CONSUMERS 13557 | 152 | D | | | GRIMSBY | 156.4 | DST 1 MIDDLE | 08/12/79 | 41069 | 28000 | 3888 | 124000 | 98 | 309 | 197364 | 6.5 | | |
| CONSUMERS 13557 | 152 | D | | | GRIMSBY | 156.4 | DST 1 TOP | 08/12/79 | 50131 | 28000 | 3888 | 138000 | 39 | 334 | 220392 | 5.5 | | |
| CONSUMERS 13557 | 152 | D | | | GRIMSBY | 156.4 | DST 1 BOTTOM | 08/12/79 | 50108 | 28000 | 3888 | 138000 | 39 | 309 | 220344 | 5.5 | | |
| CONSUMERS 13427 | 154 | H | | | GRIMSBY | 522.4 | DST 1 STRADDLE | 09/27/78 | 603 | 72800 | 1458 | 134000 | 317 | 175 | 209353 | 9.1 | | |
| CONSUMERS 13184 | 154 | M | | | GRIMSBY | 544.4 | DST 2 TOP | 06/03/72 | 17640 | 142400 | 0 | 280000 | 0 | 18 | 440058 | 7.2 | 0.0650 | |
| CONSUMERS 13184 | 154 | M | | | GRIMSBY | | | 08/03/72 | 2530 | 129600 | 2044 | 240000 | 0 | 18 | 374192 | 6.6 | | |
| CONSUMERS 13220 | 155 | G | | | GRIMSBY | 538.0 | BOTTOM | 05/31/73 | 15272 | 44800 | 2400 | 110000 | 58 | 297 | 172827 | 8.0 | | |
| CONSUMERS 13220 | 155 | G | | | GRIMSBY | 538.0 | TOP | 05/31/73 | 9614 | 57600 | 2400 | 124000 | 54 | 216 | 193884 | 8.6 | | |
| CONSUMERS 13567 | 155 | M | | | GRIMSBY | 537.0 | DST 1 | 09/03/79 | 5336 | 62400 | 2916 | 124000 | 254 | 0 | 194906 | 8.7 | | |
| CONSUMERS 13567 | 155 | M | | | GRIMSBY | 537.0 | DST 1 BOTTOM | 09/03/79 | 4405 | 80000 | 2430 | 158000 | 342 | 0 | 245177 | 8.6 | | |
| CONSUMERS 13604 | 156 | U | | | GRIMSBY | 551.0 | DST 2 BOTTOM | 09/08/79 | 5037 | 38400 | 972 | 78000 | 1288 | 0 | 123697 | 8.9 | | |
| CONSUMERS 13189 | 176 | U | | | GRIMSBY | 638.6 | TOP COLUMN | 09/20/72 | 8900 | 4160 | 1085 | 24000 | 44 | 288 | 38457 | 6.8 | 1.0350 | |
| CONSUMERS 13189 | 176 | U | | | GRIMSBY | 638.6 | TOP TOOL | 09/20/72 | 10950 | 5280 | 1360 | 30000 | 63 | 288 | 47941 | 7.1 | 1.0400 | |
| CONSUMERS 13615 | 221 | D | | | GRIMSBY | 633.5 | DST 1 BOTTOM | 07/24/79 | 966 | 88800 | 0 | 158000 | 1610 | 0 | 249376 | 9.6 | | |
| CONSUMERS 13250 | 221 | P | | | GRIMSBY | 639.5 | DST 2 TOP 37M | 07/07/75 | 4278 | 116400 | 2430 | 220000 | 425 | 96 | 343629 | 8.3 | 1.2600 | |
| CONSUMERS 13350 | 221 | P | | | GRIMSBY | 639.5 | DST 2 BOT 37M | 07/07/75 | 5129 | 117600 | 1944 | 222000 | 425 | 113 | 347211 | 8.1 | 1.2800 | |
| CONSUMERS 13350 | 221 | P | | | GRIMSBY | 639.5 | DST 2 MIDDLE | 06/25/75 | 6026 | 118400 | 972 | 222000 | 388 | 116 | 347902 | 7.4 | 1.2800 | |
| CONSUMERS 13350 | 221 | P | | | GRIMSBY | 639.5 | DST 2 TOP | 06/25/75 | 4278 | 116400 | 2430 | 220000 | 425 | 96 | 343629 | 8.3 | 1.2600 | |
| CONSUMERS 13350 | 221 | P | | | GRIMSBY | 639.5 | DST 2 BOTTOM | 06/25/75 | 5129 | 117600 | 1944 | 222000 | 425 | 113 | 347211 | 8.1 | 1.2800 | |
| CONSUMERS 13350 | 221 | P | | | GRIMSBY | 639.5 | DST 2 MID 37M | 07/07/75 | 6026 | 118400 | 972 | 222000 | 388 | 116 | 347902 | 7.4 | 1.2800 | |
| CONSUMERS 13368 | 222 | M | | | GRIMSBY | 643.1 | DST ABOVE TOOL | 07/14/75 | 9338 | 145200 | 0 | 272000 | 242 | 7 | 426787 | 5.5 | 1.3400 | |
| CONSUMERS 13243 | 223 | A | | | GRIMSBY | 635.5 | DST 1 TOP | 06/16/73 | 6325 | 120800 | 0 | 224000 | 302 | 98 | 351525 | 7.3 | | |
| CONSUMERS 13366 | 223 | B | | | GRIMSBY | 643.1 | DST ABOVE TOOL | 07/14/75 | 9338 | 145200 | 0 | 272000 | 242 | 7 | 426787 | 5.5 | 1.3400 | |
| CONSUMERS 13376 | 223 | K | | | GRIMSBY | 652.3 | DST 2 TOP | 07/25/76 | 9499 | 86400 | 2916 | 176000 | 183 | 576 | 275574 | 8.0 | | |
| CONSUMERS 13376 | 223 | K | | | GRIMSBY | 652.3 | DST 2 MIDDLE | 07/25/76 | 3726 | 92000 | 1944 | 174000 | 440 | 659 | 272769 | 7.9 | | |
| CONSUMERS 13376 | 223 | K | | | GRIMSBY | 652.3 | DST 2 BOTTOM | 07/25/76 | 6233 | 95200 | 0 | 178000 | 366 | 525 | 280324 | 8.2 | | |
| CONSUMERS 13245 | 242 | K | | | GRIMSBY | 687.3 | PIPE REC TOP | 07/08/73 | 0 | 80800 | 5058 | 154000 | 165 | 28 | 240051 | 6.5 | | |
| CONSUMERS 13245 | 242 | K | | | GRIMSBY | 687.3 | PIPE REC BOTTO | 07/08/73 | 1035 | 79200 | 3372 | 152000 | 56 | 161 | 235824 | 6.4 | | |
| PEMBINA LAKE ERIE 67-F-IV | 67 | F | | | WHIRLPOOL | 396.5 | | 04/28/83 | 55000 | 32380 | 4636 | 155890 | 14 | 455 | 248375 | 4.2 | 1.1749 | 0.0430 |
| CPOG WELLAND 2A | 24 | U | | | CAMBRIAN | 1250.9 | | 11/04/69 | 0 | 36000 | 2500 | 0 | 0 | 270 | 38770 | 6.5 | 1.1390 | |
| CONSUMERS 13526A | 98 | B | | | CAMBRIAN | 1150.3 | MIDDLE | 07/29/78 | 1555 | 1600 | 972 | 8000 | 88 | 58 | 12273 | 7.3 | | |
| CONSUMERS 13526A | 98 | B | | | CAMBRIAN | 1150.3 | TOP | 07/29/78 | 1389 | 160 | 0 | 1600 | 874 | 453 | 4476 | 7.9 | | |
| CONSUMERS 13526A | 98 | B | | | CAMBRIAN | 1150.3 | BOTTOM | 07/29/78 | 7128 | 3200 | 486 | 18000 | 88 | 72 | 28974 | 7.7 | | |
| CPOG HALDIMAND 1 | 131 | G | | | CAMBRIAN | 1249.7 | | 07/19/70 | 0 | 5000 | 350 | 0 | 0 | 460 | 5810 | 7.4 | 1.0220 | |
| CONSUMERS 13176 | 222 | V | | | CAMBRIAN | 1307.6 | DST 5 TOP | 08/19/77 | 0 | 64000 | 0 | 92000 | 53 | 8 | 156061 | 8.1 | 1.1680 | 0.1090 |
| CONSUMERS 13176 | 222 | V | | | CAMBRIAN | 1307.6 | DST 5 MIDDLE | 08/20/77 | 0 | 112000 | 12000 | 192000 | 12 | 2 | 316014 | 5.6 | 1.2100 | 0.0681 |
| CONSUMERS 13176 | 222 | V | | | CAMBRIAN | 1408.8 | DST 4 MIDDLE | 08/19/77 | 0 | 108000 | 16000 | 168000 | 12 | 3 | 292015 | 5.4 | 1.2000 | 0.0640 |
| CONSUMERS 13176 | 222 | V | | | CAMBRIAN | 1307.6 | DST 5 MIDDLE | 08/20/77 | 0 | 108000 | 12000 | 184000 | 27 | 4 | 304031 | 5.7 | 1.2150 | 0.0724 |
| CONSUMERS 13176 | 222 | V | | | CAMBRIAN | 1307.6 | DST 5 BOTTOM | 08/20/77 | 0 | 112000 | 12000 | 192000 | 24 | 0.8 | 316024.8 | 6.0 | 1.2240 | 0.0684 |
| CONSUMERS 13176 | 222 | V | | | CAMBRIAN | 1408.8 | DST 4 TOP | 08/19/77 | 0 | 52000 | 0 | 64000 | 79 | 13 | 116092 | 7.7 | 1.0890 | 0.1260 |
| CONSUMERS 13176 | 222 | V | | | CAMBRIAN | 1408.8 | DST 4 MIDDLE | 08/19/77 | 0 | 110000 | 10000 | 160000 | 18 | 6 | 280024 | 5.6 | 1.2000 | 0.0691 |
| CONSUMERS 13176 | 222 | V | | | CAMBRIAN | 1408.8 | DST 4 BOTTOM | 08/20/77 | 50 | 128000 | 12000 | 188000 | 48 | 2 | 328100 | 6.5 | 1.2340 | 0.0980 |
| CONSUMERS 13176 | 222 | V | | | CAMBRIAN | 1408.8 | DST 4 TOP | 08/19/77 | 0 | 52000 | 0 | 68000 | 43 | 14 | 120057 | 7.4 | 1.0910 | 0.1320 |
| CONSUMERS 13152 | 122 | I | | | | 6.1 | | | 11560 | 76800 | 1940 | 160000 | 0 | 247 | 250547 | 7.6 | | |
| CONSUMERS 13154 | 124 | N | | | | | BOTTOM | | 12800 | 5280 | 1944 | 33200 | 66 | 1490 | 54780 | 8.1 | 1.0490 | |
| CONSUMERS 13329 | 125 | F | | | | | TOP TOOL | 05/19/75 | 552 | 108800 | 0 | 192000 | 186 | 0 | 301538 | 8.1 | 1.2200 | 0.0620 |
| CONSUMERS 13253 | 221 | O | | | | | | 10/11/73 | 126 | 4680 | 389 | 9300 | 151 | 332 | 14978 | 7.9 | | |
| CONSUMERS 13254 | 221 | O | | | | | | | 4393 | 84800 | 35478 | 262000 | 415 | 0 | 387086 | 6.7 | | |
| CONSUMERS 13252A | 222 | T | | | | | | | 0 | 33.6 | 8.6 | 0.6 | 54 | 72 | 168.8 | 5.8 | | |
| CONSUMERS 13252C | 222 | T | | | | | | | 28 | 36 | 10 | 64 | 78 | 25 | 241 | 6.7 | | |
| CONSUMERS 13252B | 222 | T | | | | | | 10/07/73 | 0 | 36 | 10 | 0 | 83 | 33 | 162 | 6.2 | | |
| CONSUMERS 13252 | 222 | T | | | | | | 01/01/73 | 0 | 36 | 10 | 0 | 83 | 33 | 162 | 6.2 | | |

## APPENDIX VI. WATER ANALYSIS SUMMARY.

| WELL NAME | LOT | CONC | N-S | E-W | FORMATION | DEPTH | SAMPLE FROM | DATE | NA | CA | MG | CL | HCO3 | SO4 | TDS | PH | DENSITY | RESIST |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **** COUNTY LAMBTON** | | | | | | | | | | | | | | | | | | |
| * TOWNSHIP BOSANQUET | | | | | | | | | | | | | | | | | | |
| K.R. BOSANQUET 6-II | 6 | II | 18.3S | 299.6E | GUELPH | 653.5 | DST 1 (613M) | 09/02/69 | 78738 | 38352 | 8942 | 204080 | 34 | 1375 | 331521 | 5.6 | 1.2192 | 0.0100 |
| K.R. BOSANQUET 6-II | 6 | II | 18.3S | 299.6E | GUELPH | 653.5 | DST 1 (505M) | 09/02/69 | 99878 | 5990 | 1546 | 167861 | 54 | 1628 | 276957 | 5.4 | 1.1924 | 0.0120 |
| K.R. BOSANQUET 1 | 15 | XIII | 152.4N | 109.7W | BLACK R | 1 277.1 | | 10/19/69 | 0 | 64000 | 4500 | 0 | 0 | 230 | 68730 | 6.1 | 1.2130 | |
| O'SHEA SMITH LAKE 2-15-C | 15 | C | 463.3N | 152.4E | CAMBRIAN | 876.3 | | | 0 | 41000 | 4700 | 0 | 0 | 0 | 45700 | 5.6 | 1.1810 | |
| HOME-CDR | 69 | LRE | 152.4S | 647.7E | CAMBRIAN | | | | 53505 | 53600 | 6600 | 0 | 0 | 188 | 113893 | | 1.2280 | |
| * TOWNSHIP BROOKE | | | | | | | | | | | | | | | | | | |
| CONSUMERS 33110 | 22 | XIII | 114.9S | 167.6W | DETROIT R. | | BAILER | 05/02/80 | 1433 | 2000 | 486 | 4600 | 293 | 3149 | 11931 | 7.1 | | |
| | 5 | XII | | | SILURIAN | | | 08/07/69 | 55000 | 47500 | 8500 | 190000 | 120 | 190 | 301310 | 4.0 | 1.2030 | |
| | 10 | XIII | | | SILURIAN | | | 08/07/69 | 52000 | 47000 | 8100 | 185000 | 120 | 170 | 292390 | 4.0 | 1.2020 | |
| * TOWNSHIP DAWN | | | | | | | | | | | | | | | | | | |
| | 23 | I | | | DRIFT | 18.9 | | 08/01/64 | 0 | 0 | 0 | 470 | 0 | 0 | 470 | 7.7 | | |
| IMP. DAWN 32-XII | 32 | XII | 152.4N | 502.9W | GUELPH | 595.6 | BAILER | 12/22/63 | 80960 | 43200 | 851 | 203593 | 107 | 202 | 328913 | 5.8 | 1.2205 | 0.0490 |
| * TOWNSHIP ENNISKILLEN | | | | | | | | | | | | | | | | | | |
| K.R. ENNISKILLEN 21-XIII | 21 | XIII | 445.0N | 109.1E | DRIFT | | WATER WELL | 01/19/70 | 0 | 0 | 0 | 203 | 0 | 3 | 206 | 7.5 | | |
| | 23 | VIII | | | DRIFT | | SOURCE WELL | 07/12/68 | 122 | 25 | 5 | 108 | 213 | 21 | 494 | 7.0 | 1.0020 | |
| CONSUMERS 32546 | 13 | XI | 502.9S | 135.6W | DUNDEE | 123.4 | | 02/24/76 | 8431.8 | 3520 | 1677 | 22700 | 1073 | 1153 | 38554.8 | 6.5 | 1.0350 | |
| CAPITAL ENNISKILLEN 2 | 23 | VIII | 246.9S | 378/3E | DUNDEE | | | 07/12/68 | 9804 | 1132 | 154 | 17305 | 42 | 338 | 28775 | 4.3 | 1.0240 | 0.2460 |
| RAM 65 | 12 | XII | 396.2S | 61.0E | LUCAS | 213.4 | | 05/13/78 | 4900 | 0 | 0 | 12348 | 163 | 2400 | 19811 | 8.4 | | |
| RAM 65 | 12 | XII | 396.2S | 61.0E | LUCAS | 143.3 | | 05/03/78 | 3700 | 0 | 0 | 9244 | 10600 | 1280 | 24824 | 7.2 | | |
| DISPOSAL WELL THOMPSON | 12 | XII | | | DETROIT R. | | | | 0 | 0 | 0 | 386 | 0 | 0 | 386 | 7.4 | | |
| CONSUMERS 32546 | 13 | XI | 502.9S | 135.6W | DETROIT R. | 213.4 | | 02/24/76 | 5625.8 | 1080 | 631 | 9000 | 3355 | 2019 | 21710.8 | 7.1 | 1.0200 | |
| MARCUS DISPOSAL WELL | 31 | V | 251.5N | 76.2W | DETROIT R. | 29.3 | | 06/03/70 | 0 | 0 | 0 | 19620 | 0 | 1620 | 21240 | 7.1 | 1.0300 | |
| | 2 | VIII | | | DEVONIAN | | | 08/07/69 | 1100 | 200 | 0 | 3000 | 0 | 205 | 4505 | 7.0 | 1.0300 | |
| RAM 39 | 0 | | | | | | | 01/15/76 | 1800 | 580 | 330 | 3600 | 2 | 2900 | 9262 | 7.5 | | |
| * TOWNSHIP EUPHEMIA | | | | | | | | | | | | | | | | | | |
| AMOCO A-1 | 18 | IV | 158.2N | 213.2E | GUELPH | | SWAB | 06/15/79 | 77542 | 34230 | 7599 | 203800 | 490 | 240 | 323901 | 5.3 | 1.2180 | 0.0490 |
| AMOCO A-1 | 18 | IV | 158.2N | 213.1E | GUELPH | | SWAB | 06/14/79 | 74676 | 34640 | 7611 | 200200 | 495 | 254 | 317876 | 5.3 | 1.2220 | 0.0490 |
| AMOCO A-1 | 18 | IV | 158.2N | 213.1E | GUELPH | | SWAB | 06/20/79 | 75673 | 34780 | 7778 | 202200 | 791 | 258 | 321480 | 5.3 | 1.2160 | 0.0490 |
| AMOCO A-1 | 18 | IV | 158.2N | 213.1E | GUELPH | | SWAB | 06/10/79 | 67838 | 27780 | 7420 | 177100 | 105 | 257 | 280500 | 4.9 | 1.2020 | 0.0490 |
| AMOCO A-1 | 18 | IV | 158.2N2 | 13.1E | GUELPH | | SWAB | 06/14/79 | 78527 | 33610 | 7494 | 203900 | 503 | 230 | 324264 | 5.5 | 1.2200 | 0.1490 |

## APPENDIX VI. WATER ANALYSIS SUMMARY.

| WELL NAME | LOT | CONC | N-S | E-W | FORMATION | DEPTH | SAMPLE FROM | DATE | NA | CA | MG | CL | HCO3 | SO4 | TDS | PH | DENSITY | RESIST |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **• TOWNSHIP MOORE** | | | | | | | | | | | | | | | | | | |
| LA PIER | 19 | XI | | | DRIFT | | | 01/15/65 | 0 | 0 | 0 | 96 | 0 | 0 | 96 | 8 | | |
| LA PIER | 19 | XI | | | DRIFT | | WATER WELL | 01/08/65 | 0 | 0 | 0 | 138 | 0 | 0 | 138 | 7.6 | | |
| LA PIER | 19 | XI | | | DRIFT | | WATER WELL | 01/08/65 | 0 | 0 | 0 | 630 | 0 | 0 | 630 | 8.1 | | |
| LA PIER | 19 | XI | | | DRIFT | | WATER WELL | 01/24/65 | 0 | 0 | 0 | 646 | 0 | 0 | 646 | 8 | | |
| LA PIER | 19 | XI | | | DRIFT | | WATER WELL | 01/24/65 | 0 | 0 | 0 | 195 | 0 | 0 | 195 | 7.8 | | |
| IMP. MOORE 3-5-XI | 5 | XI | 548.6S | 274.3E | DETROIT R. | 125.3 | SAMPLE 5 | 10/31/61 | 5900 | 1210 | 1668 | 13156 | 330 | 1360 | 23624 | 7.1 | 1.0190 | |
| PONCA 1 | 6 | XI | 167.6N | 149.0E | DETROIT R. | | | 05/09/69 | 0 | 0 | 0 | 14180 | 0 | 1680 | 15860 | 7.2 | 1.0480 | |
| AMALGAMATED DISPOSAL WELL 1 | 7 | XI | 255.1S | 158.8W | DETROIT R. | 274.3 | | 11/24/70 | 0 | 0 | 0 | 15900 | 0 | 1850 | 17750 | 9.6 | | |
| HARMON MOORE 8-9-XI | 9 | XI | 146.3N | 169.2W | DETROIT R. | | | 05/09/69 | 0 | 0 | 0 | 16860 | 0 | 2120 | 18980 | 7.4 | 1.0220 | |
| IMP. MOORE 21-I | 21 | I | 1127.8N | 115.9E | DETROIT R. | 255.4 | | 10/13/61 | 26772 | 440 | 4131 | 61060 | 98 | 40 | 92541 | 7.7 | 1.0694 | 0.0740 |
| CONSUMERS 2994 | 9 | V | | | GUELPH | | | 08/03/00 | 52600 | 46400 | 5832 | 180000 | 0 | 250 | 285082 | 6.2 | 1.2050 | 0.1000 |
| CONSUMERS 6177 | 10 | V | | | GUELPH | | | 08/03/71 | 0 | 0 | 1.9 | 0 | 2.4 | 0 | 4.3 | 5.9 | 0.9970 | 8.3000 |
| TECUMSEH KIMBALL COLLINVILLE 2 | 13 | VII | 734.6S | 135.6W | GUELPH | 714.5 | BAILER | 07/27/64 | 36344 | 21500 | 2960 | 104800 | 220 | 1000 | 166824 | 6.5 | 1.1198 | 0.0500 |
| IMP. MOORE 17-I | 17 | I | 502.9N | 198.1E | GUELPH | 724.2 | | 03/16/67 | 39551 | 80742 | 8713 | 229040 | 259 | 83 | 358388 | 5.1 | 1.2616 | 0.0520 |
| IMP. MOORE 17-I | 17 | I | 502.9N | 198.1E | GUELPH | 724.2 | | 03/16/67 | 39551 | 80742 | 8713 | 229040 | 259 | 83 | 358388 | 5.1 | 1.2616 | 0.0520 |
| IMP. SECKERTON 3 | 20 | IX | 573.0S | 243.8E | GUELPH | 740.7 | SWAB | 10/22/63 | 18814 | 67800 | 11178 | 181938 | 83 | 174 | 279987 | 5.7 | 1.2425 | 0.0430 |
| IMP. SECKERTON 13 | 20 | VIII | 243.8S | 286.5W | GUELPH | 758.9 | SWAB | 10/15/63 | 43332 | 58000 | 13730 | 210515 | 234 | 162 | 325973 | 5.5 | 1.2431 | 0.0460 |
| IMP. SECKERTON 13 | 20 | VIII | 243.8S | 286.5W | GUELPH | 748.3 | | 10/02/62 | 46184 | 52200 | 10631 | 6241 | 95250 | 126 | 305015 | 5 | 1.2133 | 0.0908 |
| IMP. UNION SECKERTON N 1 | 21 | IX | 265.2S | 466.9E | GUELPH | 750.1 | SWAB | 03/21/60 | 114034 | 7320 | 2308 | 193475 | 78 | 2764 | 319979 | 4.9 | 1.1970 | 0.0420 |
| IMP. 559-BRANDY 1 | 49 | RF | 61.0N | 243.8W | CAMBRIAN | | | 12/01/61 | 56442 | 49200 | 6075 | 191700 | 137 | 4 | 303558 | 7 | 1.2156 | 0.0540 |
| CDL 12 | 0 | | | | | | | 01/15/76 | 5560 | 1000 | 770 | 11700 | 2 | 750 | 19782 | 7.1 | | |
| CDL 12 | 0 | | | | | | | 01/15/76 | 16000 | 1700 | 1000 | 17600 | 2 | 1500 | 37802 | 7.1 | | |
| CONSUMERS 6177 | 0 | | BRIGDEN | PLANT | | | | 10/02/79 | 24332 | 23200 | 7290 | 100000 | 29 | 0 | 154851 | 6.1 | | |
| IMP. CORUNNA 16 A-1 | 19 | IX | | | | | BLOWDWN WATE | 01/04/63 | 25737 | 25800 | 4374 | 97625 | 259 | 226 | 154021 | 7.4 | 1.1195 | 0.6420 |
| IMP. KIMBALL 14 | 19 | V | | | | | | 05/02/64 | 50025 | 60000 | 12393 | 219390 | 161 | 175 | 342144 | 6.2 | 1.2407 | 0.0420 |
| **• TOWNSHIP PLYMPTON** | | | | | | | | | | | | | | | | | | |
| IMP. PLYMPTON 6-II | 6 | II | 419.1S | 230.1W | DETROIT R. | 152.4 | BAILER | 12/27/62 | 2277 | 580 | 194 | 5077 | 142 | 184 | 8454 | 7.8 | 1.0045 | 0.7040 |
| IMP. PLYMPTON 2-14-III | 14 | III | 289.6S | 240.8E | DETROIT R. | 181.7 | | 01/17/62 | 4439 | 1600 | 996 | 12283 | 493 | 56 | 19867 | 8 | 1.0274 | 0.2700 |
| IMP. BARCHILD-McKINLEY | 18 | VII | 221.0N | 213.4E | CAMBRIAN | 1333.5 | | | 0 | 18300 | 500 | 0 | 0 | 100 | 18900 | 0 | 1.2230 | |
| **• TOWNSHIP SARNIA** | | | | | | | | | | | | | | | | | | |
| ELLIOT FARM | 1 | I | | | HAMILTON | 54.9 | PUMP | 07/02/63 | 391 | 30 | 11 | 536 | 354 | 0 | 1322 | 7 | 0.9989 | 1.6400 |
| DOME PAN AM SARNIA SWD | 17 | B | RP13285.3N | 533.4W | DETROIT R. | 205.1 | SWAB | 09/28/69 | 13887 | 13766 | 4105 | 56592 | 839 | 884 | 90073 | 5.7 | 1.0621 | 0.0820 |
| DOME PAN AM SARNIA SWD | 17 | B | RP13285.3N | 533.4W | DETROIT R. | 205.1 | | 09/28/69 | 28173 | 27102 | 5023 | 105174 | 415 | 814 | 166701 | 5.7 | 1.1130 | 0.0500 |
| DOME PAN AM SARNIA SWD | 17 | B | RP13285.3N | 533.4W | DETROIT R. | 205.1 | SWAB | 09/28/69 | 14883 | 13425 | 3963 | 57115 | 878 | 862 | 91126 | 5.6 | 1.0614 | 0.0810 |
| DOME PAN AM SARNIA SWD | 17 | B | RP13285.3N | 533.4W | DETROIT R. | 205.1 | WELL HEAD | 09/28/69 | 14883 | 13425 | 3963 | 51115 | 878 | 862 | 85126 | 5.6 | 1.0614 | 0.0810 |
| DOME PAN AM SARNIA SWD | 17 | B | RP13285.3N | 533.4W | DETROIT R. | 205.1 | WELL HEAD | 09/28/69 | 28173 | 27102 | 5023 | 105174 | 415 | 814 | 166701 | 5.7 | 1.1130 | 0.0500 |
| SHELL SARNIA CHIPPEWA | 1 | IR3 | 106.7N | 725.0E | GOAT I. | | | 03/17/80 | 0 | 0 | 0 | 103322 | 0 | 0 | 103322 | 5.9 | | 0.0570 |
| SHELL SARNIA CHIPPEWA | 1 | IR3 | 106.7N | 725.0E | GOAT I. | | | 02/28/80 | 43032 | 12499 | 2915 | 96062 | 85 | 1172 | 155765 | 5.3 | 1.1130 | 0.0570 |
| SHELL SARNIA CHIPPEWA | 1 | IR3 | 106.7N | 725.0E | GOAT I. | | | 03/18/80 | 52361 | 9374 | 1898 | 101647 | 122 | 1557 | 166959 | 6.2 | 1.1190 | 0.0580 |
| SHELL SARNIA CHIPPEWA | 1 | IR3 | 106.7N | 725.0E | GOAT I. | | | 03/05/80 | 49561 | 10490 | 1898 | 99413 | 98 | 1428 | 162888 | 5.7 | 1.1150 | 0.0580 |
| SHELL SARNIA CHIPPEWA | 1 | IR3 | 106.7N | 725.0E | GOAT I. | | | 03/06/80 | 52895 | 9263 | 1898 | 102206 | 159 | 1620 | 168041 | 6.4 | 1.1190 | 0.0550 |
| SHELL SARNIA CHIPPEWA | 1 | IR3 | 106.7N | 725.0E | GOAT I. | | | 03/14/80 | 53609 | 9263 | 1898 | 103323 | 159 | 1600 | 169852 | 6.2 | 1.1180 | 0.0530 |
| SHELL SARNIA CHIPPEWA | 1 | IR3 | 106.7N | 725.0E | GOAT I. | | | 03/12/80 | 54609 | 10267 | 2034 | 107232 | 122 | 1492 | 175756 | 6 | 1.1240 | 0.0530 |
| SHELL SARNIA CHIPPEWA | 1 | IR3 | 106.7N | 725.0E | GOAT I. | | | 03/15/80 | 0 | 0 | 0 | 102206 | 0 | 0 | 102206 | 6.2 | | 0.0570 |
| SHELL SARNIA CHIPPEWA | 1 | IR3 | 106.7N | 725.0E | GOAT I. | | | 03/13/80 | 0 | 0 | 0 | 108349 | 0 | 0 | 108349 | 5.6 | | 0.0540 |
| SHELL SARNIA CHIPPEWA | 1 | IR3 | 106.7N | 725.0E | GOAT I. | | | 03/01/80 | 0 | 0 | 0 | 98854 | 0 | 0 | 98854 | 6.1 | | 0.0570 |
| IMP DELHI SARNIA 4-I | 4 | I | 182.9S | 152.4W | SILURIAN | 646.5 | | 09/20/65 | 105821 | 10064 | 3898 | 191855 | 53 | 610 | 312301 | 5.9 | 1.2097 | 0.0520 |

## APPENDIX VI. WATER ANALYSIS SUMMARY.

| WELL NAME | LOT | CONC | N-S | E-W | FORMATION | DEPTH | SAMPLE FROM | DATE | NA | CA | MG | CL | HCO3 | SO4 | TDS | PH | DENSITY | RESIST |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *** TOWNSHIP SOMBRA** | | | | | | | | | | | | | | | | | | |
| | 23 | IX | | | DRIFT | | WATER WELL | 05/26/69 | 0 | 0 | 0 | 986 | 0 | 0 | 986 | 8.2 | | |
| IMP. 804 MERE 1 | 29 | V | 502.9S | 150.9W | DRIFT | 18.3 | WATER WELL | 02/16/62 | 506 | 8 | 4 | 604 | 395 | 0 | 1517 | 7.6 | 1.0000 | 3.6000 |
| CIL DISPOSAL WELL 1 | 2 | XV | 288.0S | 91.4E | LUCAS | 237.7 | WELL BORE | 04/01/68 | 11500 | 2600 | 1440 | 0 | 0 | 2120 | 17660 | 7.6 | 1.0360 | |
| CIL DISPOSAL WELL 1 | 2 | XV | 288.0S | 91.4E | AMHERSTB. | 259.1 | WELL BORE | 04/01/68 | 15800 | 2400 | 1920 | 0 | 0 | 2200 | 22320 | 7.2 | 1.0410 | |
| CIL DISPOSAL WELL 1 | 2 | XV | 288.0S | 91.4E | AMHERSTB. | 303.0 | WELL BORE | 04/01/68 | 41000 | 16160 | 5208 | 0 | 0 | 860 | 63228 | 6.6 | 1.1460 | |
| CONSUMERS 232475 | 1 | X | 106.7S | 195.1E | DETROIT R. | 227.1 | | 01/01/77 | 20640.2 | 4000 | 2430 | 46000 | 24.4 | 125 | 73219.6 | 5.9 | | |
| CONSUMERS 32475 SOMBRA 2-1-X | 1 | X | 106.7S | 195.1E | DETROIT R. | 227.1 | | 01/01/77 | 20640.2 | 4000 | 2430 | 46000 | 24.4 | 125 | 73219.6 | 5.9 | | |
| CIL DISPOSAL WELL 1 | 2 | XV | 288.0S | 91.4E | DETROIT R. | 303.0 | | 04/01/68 | 41000 | 16160 | 5208 | 0 | 99 | 860 | 63327 | 6.6 | 1.1460 | |
| CIL DISPOSAL WELL 1 | 2 | XV | 288.0S | 91.4E | DETROIT R. | 259.1 | | 04/01/68 | 15800 | 2400 | 1920 | 0 | 202 | 2200 | 22522 | 7.2 | 1.0410 | |
| CIL DISPOSAL WELL 1 | 2 | XV | 288.0S | 91.4E | DETROIT R. | 237.7 | | 04/01/68 | 11500 | 2600 | 1440 | 0 | 105 | 2120 | 17765 | 7.6 | 1.0360 | |
| IMP. BECHER 74 | 4 | V | 530.4N | 225.6E | DETROIT R. | 208.8 | | 12/01/61 | 17066 | 4100 | 1883 | 39050 | 54 | 12 | 62165 | 7.3 | 1.0477 | 0.1300 |
| IMP. HENRY 1 | 6 | XIV | 579.1N | 45.7E | DETROIT R. | | SURFACE SEEPAGE | | 0 | 0 | 0 | 52060 | 0 | 1900 | 53960 | 6.9 | 1.2200 | |
| IMP. BICKFORD 26 | 7 | XIII | 121.9N | 45.7W | DETROIT R. | 217.9 | | 10/13/61 | 18561 | 4400 | 5103 | 51120 | 176 | 52 | 79412 | 7.7 | 1.0615 | 0.0830 |
| IMP. SOMBRA 8-XIV | 8 | XIV | 472.4N | 121.9W | DETROIT R. | 222.2 | | 02/13/63 | 30560 | 5702 | 2897 | 65000 | 55 | 872 | 105086 | 6.9 | 1.0750 | 0.0880 |
| IMP. SOMBRA 8-XIV | 8 | XIV | 472.4N | 121.9W | DETROIT R. | | | 02/13/63 | 30560 | 5702 | 3897 | 65000 | 55 | 872 | 106086 | 6.9 | 1.0750 | 0.0880 |
| IMP. SOMBRA 4-29-V | 29 | V | 502.9S | 150.9W | DETROIT R. | 296.7 | BAILER | 02/28/62 | 12535 | 3440 | 2017 | 31240 | 146 | 0 | 49378 | 7.4 | 1.0371 | 0.1400 |
| IMP. SOMBRA 4-29-V | 29 | V | 502.9S | 150.9W | DETROIT R. | 167.6 | BAILER | 02/24/62 | 11546 | 3120 | 1774 | 28400 | 190 | 0 | 45030 | 7.6 | 1.0345 | 0.1400 |
| IMP. BECHER 17 | 6 | V | 524.3N | 219.5E | A-1 | 587.0 | | 02/10/64 | 61640 | 56000 | 3860 | 208030 | 205 | 175 | 329910 | 6.6 | 1.2300 | 0.0560 |
| IMP. CPD BECHER 38 | 9 | VI | 810.8N | 97.5E | A-1 | 567.5 | TUBING | 01/04/61 | 88803 | 23200 | 5346 | 193475 | 102 | 6 | 310932 | 6.8 | 1.2084 | 0.0400 |
| IMP. BECHER 74 | 4 | V | 530.4N | 225.6E | GUELPH | 625.7 | BAILER | 11/16/61 | 83513 | 27800 | 6075 | 195250 | 83 | 8 | 312729 | 6.8 | 1.2191 | 0.0500 |
| IMP. BECHER 77 | 9 | V | 588.3N | 109.7W | GUELPH | 590.1 | SWAB | 09/30/63 | 3818 | 408 | 0 | 6337 | 0 | 201 | 10764 | 9.1 | 1.0123 | 0.5900 |
| IMP. BECHER 77 | 9 | V | 588.3N | 109.7W | GUELPH | 591.0 | SWAB | 09/28/63 | 230 | 56 | 15 | 355 | 107 | 82 | 845 | 7 | 1.0047 | 7.1000 |
| IMP. BECHER 59 | 9 | VI | 1094.2N | 228.6W | GUELPH | 610.2 | BOTTOM TUBING | 06/21/61 | 66056 | 51200 | 4374 | 205190 | 5 | 12 | 326837 | 4.5 | 1.2248 | 0.0420 |
| IMP. SOMBRA 1-10-XIV | 10 | XIV | 106.7S | 195.1W | GUELPH | 730.3 | | 08/11/67 | 98955 | 38161 | 3977 | 23431 | 71 | 288 | 164883 | 5.7 | 1.2268 | 0.0320 |
| IMP. SOMBRA 7-10-XV | 10 | XV | 167.6N | 202.7E | GUELPH | | | 02/08/67 | 54020 | 52903 | 11658 | 210794 | 12 | 109 | 329496 | 4.7 | 1.2356 | 0.0380 |
| IMP. SOMBRA 6-10-XV | 10 | XV | 478.5N | 170.7E | GUELPH | 701.0 | BAILER | 06/23/67 | 65635 | 55901 | 8118 | 223595 | 0 | 275 | 353524 | 3.9 | 1.2401 | 0.0460 |
| IMP. SOMBRA 6-11-IX | 11 | IX | 518.2N | 121.9E | GUELPH | 552.1 | DST 2 37M ABOVE | 01/04/65 | 77324 | 39479 | 6974 | 209214 | 86 | 194 | 333271 | 6.1 | 1.2266 | 0.0550 |
| IMP. SOMBRA | 11 | IX | 518.2N | 121.9E | GUELPH | 538.3 | TUBING AFT DST | 12/29/64 | 68018 | 23888 | 4751 | 160634 | 49 | 460 | 257800 | 6.2 | 1.1820 | 0.0480 |
| IMP. BECHER 72 | 14 | VI | 606.6S | 91.4E | GUELPH | 596.0 | BOTTOM HOLE | 06/15/61 | 57408 | 49200 | 10206 | 205190 | 215 | 6 | 322225 | 5.6 | 1.2268 | 0.0420 |
| IMP. BECHER 70 | 14 | VII | 124.9N | 15.2E | GUELPH | 596.8 | BOTTOM TUBING | 06/21/61 | 60375 | 54800 | 5589 | 206255 | 200 | 8 | 327227 | 5.8 | 1.2268 | 0.0410 |
| IMP. BP SOMBRA 15-XV | 15 | XV | 493.8N | 150.9E | GUELPH | 699.5 | WELL HEAD | 04/06/65 | 65900 | 61362 | 10607 | 241128 | 0 | 95 | 379092 | 3.5 | 1.2414 | 0.5600 |
| IMP. SOMBRA 4-21-XII | 21 | XII | 533.4S | 106.7W | GUELPH | 638.3 | BAILER | 11/01/67 | 89127 | 23936 | 5502 | 195109 | 46 | 910 | 314630 | 5.5 | 1.2173 | 0.0420 |
| IMP. BP TRIAD SOMBRA 15-XV | 15 | XV | 493.8N | 150.9E | SILURIAN? | | WELL HEAD | 02/02/65 | 56398 | 55711 | 10303 | 215688 | 12 | 68 | 338180 | 4.5 | 1.2440 | 0.0490 |
| RAM 8 SOMBRA 2-24-X | 24 | X | 167.2S | 149.4E | SILURIAN | | | 10/08/69 | 68200 | 16008 | 4084 | 145008 | 0 | 45 | 233345 | 4 | 1.2200 | |
| IMP. BECHER BATTERY 1 | 0 | | | | | | TREATER | 02/24/61 | 53406 | 40400 | 12150 | 189038 | 117 | 20 | 295131 | 6.9 | 1.2071 | 0.0500 |
| IMP. BECHER 75 | 9 | V | 716.3N | 152.4E | | | WELL HEAD | 04/14/64 | 69874 | 50600 | 8748 | 222585 | 178 | 155 | 352140 | 6.7 | 1.2338 | 0.0420 |
| *** TOWNSHIP WALPOLE I.** | | | | | | | | | | | | | | | | | | |
| TEXACO 2 | 0 | | | | GUELPH | | | 10/19/65 | 12625 | 35043 | 3880 | 92000 | 130 | 975 | 144653 | 6.5 | 1.1040 | 0.0680 |
| TEXACO 2 | 0 | | | | CAMBRIAN | 1243.6 | | 10/19/65 | 80158 | 16020 | 5214 | 167000 | 43 | 372 | 268807 | 5.7 | 1.1850 | |
| TEXACO 2 | 0 | | | | CAMBRIAN | 1243.6 | | 09/20/66 | 58400 | 33600 | 15840 | 0 | 0 | 330 | 108170 | 6.4 | 1.1800 | 0.0500 |
| *** TOWNSHIP WARWICK** | | | | | | | | | | | | | | | | | | |
| IMP. WARWICK 1 | 12 | III S | 335.3N | 264.9E | GUELPH | | | 08/01/07 | 93907 | 10058 | 436 | 163056 | 213 | 910 | 268580 | 6.4 | 1.1791 | 0.0400 |
| IMP. WARWICK 3 | 12 | III S | 609.6S | 200.6E | GUELPH | 622.4 | BOTTOM HOLE | 01/11/53 | 106007 | 15299 | 2017 | 198800 | 49 | 4 | 322176 | 7.2 | 1.2075 | 0.0490 |
| IMP. WARWICK 4 | 12 | XXXV | 152.4S | 61.0W | GUELPH | 645.6 | BOTTOM HOLE | 12/01/53 | 66076 | 44400 | 9477 | 209450 | 63 | 8 | 329474 | 7 | 1.2290 | 0.0510 |
| IMP. WARWICK 2 | 13 | III S | 396.2N | 30.5E | GUELPH | 547.4 | BOTTOM HOLE | 12/01/54 | 53452 | 56400 | 10692 | 213000 | 547 | 10 | 334101 | 6 | 1.2400 | 0.0500 |
| IMP. WARWICK 17-III-S | 17 | III S | 365.8N | 152.4E | GUELPH | 647.4 | BOTTOM HOLE | 08/27/61 | 71599 | 44400 | 8262 | 213000 | 54 | 8 | 337323 | 6.7 | 1.2302 | 0.0510 |
| **** COUNTY LINCOLN** | | | | | | | | | | | | | | | | | | |
| *** TOWNSHIP N. GRIMSBY** | | | | | | | | | | | | | | | | | | |
| IMP. GRIMSBY N. | 21 | IV | 487.7N | 170.7W | CAMBRIAN | 744.3 | BAILER | 04/11/64 | 62859 | 63200 | 6318 | 227200 | 76 | 100 | 359753 | 5.9 | 1.2415 | 0.0410 |
| IMP. GRIMSBY N. | 21 | IV | 487.7N | 170.7W | CAMBRIAN | | BAILER | 04/20/64 | 53452 | 62000 | 8991 | 218325 | 81 | 100 | 342949 | 6 | 1.2348 | 0.0430 |
| CONSUMERS 7530 | 1 | V | 630.9N | 627.9E | | | WELL HEAD | 02/04/66 | 85 | 348 | 87 | 122 | 210 | 1006 | 1858 | 8.4 | 1.0040 | 5.1600 |
| *** TOWNSHIP NIAGARA** | | | | | | | | | | | | | | | | | | |
| FAST PETROL. 1 | 110 | PLAN | 8224.0S | 5.5W | CAMBRIAN | 632.8 | | 05/05/70 | 0 | 54000 | 3300 | 0 | 0 | 130 | 57430 | 6.6 | 1.1140 | |

## APPENDIX VI. WATER ANALYSIS SUMMARY.

| WELL NAME | LOT | CONC | N-S | E-W | FORMATION | DEPTH | SAMPLE FROM | DATE | NA | CA | MG | CL | HCO3 | SO4 | TDS | PH | DENSITY | RESIST |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **** COUNTY MIDDLESEX** | | | | | | | | | | | | | | | | | | |
| * TOWNSHIP DELAWARE | | | | | | | | | | | | | | | | | | |
| IMP. BLUEWATER ET AL DELAWARE | 15 | III | 304.8N | 317.0E | CAMBRIAN | 1082.9 | BAILER | 05/22/64 | 71921 | 33800 | 6002 | 187795 | 88 | 475 | 300081 | 6.2 | 1.2058 | 0.0370 |
| * TOWNSHIP EKFRID | | | | | | | | | | | | | | | | | | |
| BIRCHWOOD DONNAN PINETREE 1 | 10 | 55 | 2383.5S | 268.2W | | | | 03/28/65 | 55000 | 73600 | 4080 | 208000 | 0 | 737 | 341417 | 0 | | |
| * TOWNSHIP MOSA | | | | | | | | | | | | | | | | | | |
| IMP. UNION 10 | 10 | IRSLR | 472.4S | 236.2E | CAMBRIAN | | | 11/19/66 | 46900 | 64800 | 6960 | 0 | 0 | 127 | 118787 | 0 | | 1.2450 |
| IMP. UNION MOSA 10-I RS | 10 | I RS | 472.4S | 236.2E | | | | 11/19/66 | 56900 | 65800 | 6960 | 0 | 0 | 127 | 129787 | 0 | 1.2450 | |
| * TOWNSHIP McGILLIVRAY | | | | | | | | | | | | | | | | | | |
| IMP. McGILLIVRAY 5-XIX | 5 | XIX | 106.7N | 335.3E | DRIFT | 39.6 | WATER WELL | 02/12/62 | 16 | 14 | 5 | 5 | 102 | 0 | 142 | 7.8 | 1.0000 | |
| IMP. UNION GRAND BEND 7 | 40 | NB | 364.5S | 146.3E | DRIFT | 37.2 | | 10/13/61 | 0 | 101 | 45 | 71 | 229 | 44 | 490 | 7.8 | 1.0025 | 8.0000 |
| IMP. UNION GRAND BEND SRCE WEL | 40 | NB | 296.9S | 265.2E | DRIFT | 37.5 | | 09/01/61 | 71 | 116 | 56 | 355 | 215 | 8 | 821 | 7.7 | 1.0000 | 3.8000 |
| L. STEWARDSON FARM | 41 | NB | | | DRIFT | | WATER WELL | 10/15/61 | 44 | 76 | 49 | 256 | 142 | 12 | 579 | 7.6 | 0.9981 | 3.4000 |
| L. STEWARDSON FARM | 41 | NB | | | DRIFT | | WATER WELL | 01/28/64 | 0 | 62 | 32 | 137 | 126 | 110 | 467 | 7.3 | | |
| ORVAL MILLIN FARM | 42 | NB | | | DRIFT | | WATER WELL | 01/28/64 | 7 | 26 | 10 | 12 | 117 | 8 | 180 | 7.6 | | |
| ORVAL MILLIN FARM | 42 | NB | | | DRIFT | | WATER WELL | 09/15/61 | 7 | 26 | 10 | 12 | 117 | 8 | 180 | 7.6 | 0.9978 | |
| IMP. B.A. McGILLIVRAY 10-I | 10 | I | 30.5S | 274.3E | DETROIT R. | 94.5 | | 01/26/61 | 0 | 104 | 58 | 28 | 185 | 4 | 379 | 7.9 | 0.9991 | |
| IMP. UNION GRAND BEND SRC WL 2 | 40 | NB | 296.9S | 265.2E | DETROIT R. | 64.3 | | 09/01/61 | 0 | 472 | 132 | 71 | 176 | 12 | 863 | 8.0 | 1.0031 | 2.8000 |
| IMP. UNION GRAND BEND SRC WL 2 | 40 | NB | 296.9S | 265.2E | DETROIT R. | 59.4 | | 09/01/61 | 0 | 640 | 292 | 170 | 34 | 16 | 1152 | 7.9 | 1.0041 | 2.2000 |
| IMP. UNION GRAND BEND SRC WL 2 | 40 | NB | 296.9S | 265.2E | DETROIT R. | 64.7 | | 09/01/61 | 0 | 600 | 304 | 185 | 127 | 20 | 1236 | 8.0 | 1.0035 | 2.4000 |
| IMP. UNION GRAND BEND SRC WL 2 | 40 | NB | 296.9S | 265.2E | DETROIT R. | 118.9 | | 09/01/61 | 0 | 720 | 556 | 895 | 54 | 12 | 2237 | 7.7 | 1.0040 | 1.7000 |
| IMP. UNION GRAND BEND 7 | 40 | NB | 364.5S | 146.3E | DETROIT R. | 139.9 | | 10/10/61 | 0 | 732 | 243 | 1722 | 224 | 52 | 2973 | 7.5 | 1.0077 | 0.5900 |
| IMP. UNION GRAND BEND 6 | 40 | NB | 70.1 | 70.1 | DETROIT R. | 61.0 | | 10/13/61 | 0 | 212 | 61 | 71 | 249 | 140 | 733 | 7.6 | 1.0037 | 4.9000 |
| AMOCO A-1 McGILLIVRAY 4-6-XVI | 6 | XVI | | | GUELPH | 453.0 | DST 3 | 06/23/79 | 82500 | 25230 | 2673 | 204900 | 476 | 272 | 316051 | 8.1 | 1.2190 | 0.0440 |
| AMOCO A-1 McGILLIVRAY 4-6-XVI | 6 | XVI | | | GUELPH | 447.0 | DST 1 | 06/22/79 | 85000 | 23540 | 5881 | 219300 | 189 | 384 | 334294 | 7.7 | 1.2170 | 0.0440 |
| AMOCO A-1 McGILLIVRAY 4-6-XVI | 6 | XVI | | | GUELPH | 265.0 | DST 2 | 06/22/79 | 83500 | 23540 | 3912 | 210000 | 348 | 239 | 321539 | 8.4 | 1.2160 | 0.0440 |
| AMOCO A-1 McGILLIVRAY 4-6-XVI | 6 | XVI | | | GUELPH | 427.0 | DST 4 | 06/23/79 | 86500 | 22340 | 4204 | 202600 | 0 | 247 | 315891 | 8.4 | 1.3847 | 0.0430 |
| IMP. McGILLIVRAY 10-I | 10 | I | 30.5S | 274.3E | GUELPH | 442.0 | | | 117898 | 4200 | 2187 | 204350 | 112 | 20 | 328767 | 7.3 | 1.1948 | 0.0400 |
| GRAND BEND 3 FLOOD | 41 | NB | 280.4S | 158.5W | GUELPH | | WELL HEAD | 06/06/62 | 68149 | 2000 | 437 | 109695 | 288 | 40 | 180609 | 8.4 | 1.1215 | 0.0460 |
| GRAND BEND 2 FLOOD | 41 | NB | 304.8S | 121.9E | GUELPH | | WELL HEAD | 05/23/62 | 55637 | 1800 | 462 | 90170 | 200 | 44 | 148313 | 8.6 | 1.1024 | 0.0510 |
| GRAND BEND 3 FLOOD | 41 | NB | 280.4S | 158.5W | | | WELL HEAD | 03/26/62 | 80546 | 2120 | 583 | 129575 | 85 | 40 | 212949 | 8.6 | 1.1445 | 0.0420 |
| GRAND BEND 1 FLOOD | 41 | NBS | 131.3S | 182.9E | | | | 05/11/62 | 64929 | 2020 | 535 | 105080 | 288 | 32 | 172884 | 8.4 | 1.1175 | 0.0470 |
| * TOWNSHIP N. DORCHESTER | | | | | | | | | | | | | | | | | | |
| IMP. BARNETT DORCHESTER N 1 | 14 | IV | 216.4N | 198.1E | DETROIT R. | 135.9 | BAILER | 01/19/65 | 136 | 37 | 20 | 116 | 344 | 21 | 674 | 8.1 | 1.0026 | |
| * TOWNSHIP WEST WILLIAMS | | | | | | | | | | | | | | | | | | |
| K.R. WEST WILLIAMS 2-5-XXI | 5 | XXI | 109.7N | 396.2W | GUELPH | 624.8 | DST 1 | 10/05/69 | 113841 | 4823 | 207 | 183533 | 146 | 1408 | 303958 | 7.0 | 1.2044 | 0.0350 |
| **** COUNTY NORFOLK** | | | | | | | | | | | | | | | | | | |
| * TOWNSHIP | | | | | | | | | | | | | | | | | | |
| C.W.P. NORFOLK 65-1(14-V-III) | 0 | | | | THOR GRIM | 995.0 | | 05/03/83 | 1978 | 173750 | 26807 | 400447 | 0 | 7 | 602989 | 3.4 | 1.4120 | 0.0400 |

## APPENDIX VI. WATER ANALYSIS SUMMARY.

| WELL NAME | LOT | CONC | N-S | E-W | FORMATION | DEPTH | SAMPLE FROM | DATE | NA | CA | MG | CL | HCO3 | SO4 | TDS | PH | DENSITY | RESIST |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *** TOWNSHIP CHARLOTTEVILLE** | | | | | | | | | | | | | | | | | | |
| NORGAS KROUSE 1 | 21 | II | 524.3N | 128.0W | DRIFT | 36.0 | WATER WELL | 12/21/76 | 0 | 0 | 0 | 135 | 0 | 0 | 135 | 8.3 | | |
| NORGAS KROUSE 1 | 21 | II | 524.3N | 128.0W | DUNDEE | 69.8 | WATER WELL | 12/21/76 | 0 | 0 | 0 | 28340 | 0 | 0 | 28340 | 8.4 | | |
| NORGAS KROUSE 1 | 21 | II | 524.3N | 128.0W | DUNDEE | 79.2 | WATER WELL | 12/21/76 | 0 | 0 | 0 | 28325 | 0 | 0 | 283251 | 2.1 | | |
| NORGAS KROUSE 1 | 21 | II | 524.3N | 128.0W | BOIS BLANC | 134.1 | WATER WELL | 12/21/76 | 0 | 0 | 0 | 28087 | 0 | 0 | 280871 | 2.0 | | |
| *** TOWNSHIP HOUGHTON** | | | | | | | | | | | | | | | | | | |
| CONSUMERS 32929 | 8 | II | 6.3S | 392.6W | | | | 04/17/80 | 30689 | 16800 | 4374 | 90000 | 0 | 370 | 142433 | 1.8 | | |
| *** TOWNSHIP MIDDLETON** | | | | | | | | | | | | | | | | | | |
| NEW ASSOC. DEV. 3 | 16 | ISTR | 67.7S | 204.8E | CAMBRIAN | | | | 58000 | 41200 | 5520 | 0 | 0 | 198 | 104918 | | 1.2160 | |
| ROBERTS 1-DOCKER 1 | 20 | ISTR | 190.5N | 137.2W | CAMBRIAN | | | 01/09/63 | 60836 | 52000 | 6561 | 204836 | 63 | 115 | 324410 | 6.1 | 1.2279 | 0.0430 |
| ROBERTS 3 | 23 | IISTR | 563.9S | 36.6E | CAMBRIAN | 1039.7 | BAILER | 08/11/63 | 59823 | 53800 | 9133 | 213888 | 41 | 176 | 336861 | 5.8 | 1.2353 | 0.0400 |
| (2 WELLS THAT FIT DESCRIPTION) | 41 | III | STR | | | | ABD GAS WELL | 02/18/69 | 0 | 0 | 0 | 440 | 0 | 1120 | 1560 | | 1.0020 | |
| *** TOWNSHIP S. WALSINGHAM** | | | | | | | | | | | | | | | | | | |
| CONSUMERS 32909 | 3 | V | 453.6N | 138.4E | | | WELL HEAD | 08/20/79 | 19527 | 8800 | 4374 | 58000 | 0 | 412 | 91113 | 4.2 | | |
| CONSUMERS 32928 | 5 | II | 146.3S | 207.3E | | | | 04/17/80 | 51957 | 25800 | 4374 | 138000 | 0 | 556 | 220487 | 1.1 | | |
| *** TOWNSHIP TOWNSEND** | | | | | | | | | | | | | | | | | | |
| L.ERIE GAS TOWNSEND 3 | 9 | IV | 347.1S | 274.0W | DRIFT | 26.5 | WELL HEAD | 08/01/67 | 0 | 0 | 0 | 3 | 0 | 68 | 71 | 8.4 | 1.0010 | |
| TOWNSEND 6 | 8 | V | 225.9S | 341.4W | BOIS BLANC | 28.3 | WELL HEAD | 09/01/67 | 0 | 0 | 0 | 48 | 0 | 0 | 48 | 7.9 | | |
| L.ERIE GAS CO. WELL 1 | 8 | III | 438.9N | 152.4E | DEVONIAN | 91.4 | 5 | | 0 | 0 | 0 | 21 | 0 | 286 | 307 | 8.2 | | |
| TOWNSEND 6 | 8 | V | 225.9S | 341.4W | SALINA E | 105.8 | WELL HEAD | 09/01/67 | 0 | 0 | 0 | 76 | 0 | 0 | 76 | 7.6 | | |
| TOWNSEND 6 | 8 | V | 225.9S | 341.4W | SALINA G | 45.1 | WELL HEAD | 09/01/67 | 0 | 0 | 0 | 58 | 0 | 0 | 58 | 7.7 | | |
| *** TOWNSHIP WINDHAM** | | | | | | | | | | | | | | | | | | |
| VANDERBURG WELL 2 | 1 | XII | 259.1S | 243.8E | DRIFT | 70.1 | WELL HEAD | 08/01/67 | 0 | 0 | 0 | 10 | 0 | 815 | 825 | 8.2 | 1.0010 | |
| VANDERBURG WELL 5 | 1 | XII | 359.7S | 118.9E | DRIFT | 7.7 | WELL HEAD | 08/01/67 | 0 | 0 | 0 | 0 | 10 | 800 | 810 | 8.2 | 1.0020 | |
| VANDER 6 BARN | 1 | XII | 566.9S | 169.2W | CAMBRIAN | | | 03/01/63 | 59248 | 53600 | 6561 | 205190 | 142 | 111 | 324852 | 6.1 | 1.2283 | 0.0420 |
| *** TOWNSHIP WOODHOUSE** | | | | | | | | | | | | | | | | | | |
| BURKHOLDER WATER WELL | 15 | I | | | DRIFT | | WATER WELL | 08/25/65 | 0 | 0 | 0 | 13000 | 0 | 0 | 13000 | | | 0.0380 |
| TOWNSEND MM WOODHOUSE 4 | 15 | II | 487.7S | 152.4E | CLINTON | | WELL HEAD | 08/01/70 | 46500 | 0 | 0 | 141000 | 0 | 400 | 187900 | 4.7 | | |
| **** COUNTY NORTHUMBERLAND** | | | | | | | | | | | | | | | | | | |
| *** TOWNSHIP MURRAY** | | | | | | | | | | | | | | | | | | |
| CONSUMERS 16065 | 4 | III | 39.4N | 29.1W | | | | | 0 | 0 | 0 | 0 | 0 | 27 | 27 | 7.6 | 1.0220 | |
| CONSUMERS 11942 | 7 | I | 826.3S | 43.9W | | | | | 0 | 0 | 0 | 0 | 0 | 550 | 550 | 6.0 | | |
| **** COUNTY OXFORD** | | | | | | | | | | | | | | | | | | |
| *** TOWNSHIP BLENHEIM** | | | | | | | | | | | | | | | | | | |
| IMP. GOBLES 4 BLENHEIM 5-21-I | 21 | I | 552.0S | 150.6W | DRIFT | 21.3 | | 01/01/61 | 0 | 144 | 44 | 37 | 156 | 36 | 417 | 7.9 | 1.0030 | 7.4000 |
| IMP. BLENHEIM 5-21-I | 21 | I | | | SALINA | 68.9 | | | 0 | 616 | 131 | 142 | 185 | 36 | 1110 | 7.7 | 1.0034 | 2.1000 |
| IMP. BLENHEIM 7-21-I | 21 | I | 158.2 | 196.3 | SALINA GUELP | 204.2 | | 08/29/61 | 37 | 608 | 61 | 25 | 232 | 1594 | 2557 | 7.5 | 1.0060 | |
| NITH R. MARKLE 1 | 5 | VII | 480.4S | 165.8E | CAMBRIAN | | | | 20900 | 79600 | 5040 | 0 | 0 | 160 | 106700 | 2.2 | 1.2360 | |
| *** TOWNSHIP DEREHAM** | | | | | | | | | | | | | | | | | | |
| SUBEO CH 4 | 19 | VI | 563.9N | 129.5W | DRIFT | 71.0 | GAS WELL | 07/01/67 | 0 | 0 | 0 | 71 | 0 | 20 | 91 | 7.6 | 1.0020 | |
| SUBEO CH 4 | 19 | VI | 563.9N | 129.5W | DRIFT | 71.0 | WATER WELL | 07/01/67 | 0 | 0 | 0 | 7 | 0 | 34 | 41 | 7.7 | 1.0020 | |
| IMP. DEREHAM 23-V | 23 | V | 563.9S | 152.4W | GUELPH | 274.3 | | 03/06/65 | 10403 | 3362 | 1312 | 24390 | 208 | 1775 | 41450 | 7.6 | 1.0342 | 0.1830 |
| BLUEWATERB ET AL | 4 | VI | 243.8N | 91.4E | CAMBRIAN | 1007.4 | BAILER | 02/10/64 | 46046 | 51800 | 16160 | 209663 | 5 | 295 | 323969 | 6.0 | 1.2395 | 0.0420 |
| SUBEO A.A. 1 | 20 | VI | 616.9S | 213.4E | CAMBRIAN | 1022.6 | | | 63000 | 64400 | 4800 | 0 | 0 | 124 | 132324 | 5.9 | | |
| CS ET AL DEREHAM | 27 | VII | 113.0S | 110.0W | CAMBRIAN | | BOTTOM | 12/23/81 | 1636 | 397 | 76 | 2075 | 149 | 1846 | 6179 | 8.0 | 1.0030 | 1.2300 |

## APPENDIX VI. WATER ANALYSIS SUMMARY.

| WELL NAME | LOT | CONC | N-S | E-W | FORMATION | DEPTH | SAMPLE FROM | DATE | NA | CA | MG | CL | HCO3 | SO4 | TDS | PH | DENSITY | RESIST |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *** TOWNSHIP E. OXFORD** | | | | | | | | | | | | | | | | | | |
| IMP. 799 | 6 | VII | 538.7S | 152.1E | GUELPH | 252.1 | BAILER | 11/29/61 | 0 | 453 | 104 | 275 | 259 | 4 | 1095 | 8.2 | 1 0052 | 2.8000 |
| IMP. OXFORD EAST 3-6-VII | 6 | VII | 518.8S | 152.1E | BLACK R. | 892.5 | BAILER | 01/09/62 | 44022 | 59600 | 7290 | 194540 | 39 | 0 | 305491 | 6.6 | 1.2210 | 0.0540 |
| *** TOWNSHIP N. NORWICH** | | | | | | | | | | | | | | | | | | |
| SMITH-SUTTON 1 | 3 | V | 121.9N | 100.6W | CAMBRIAN | 953.4 | BAILER | 10/05/62 | 46966 | 67200 | 7047 | 211758 | 34 | 42 | 333047 | 5.3 | | 0.0420 |
| IMP. N. NORWICH 4-II | 4 | II | 469.4S | 181.1E | CAMBRIAN | 935.1 | BAILER | 04/19/63 | 42550 | 62000 | 5832 | 192410 | 59 | 178 | 303029 | 5.9 | 1.2243 | 0.0500 |
| **** COUNTY PRESCOTT** | | | | | | | | | | | | | | | | | | |
| *** TOWNSHIP N. PLANTAGENET** | | | | | | | | | | | | | | | | | | |
| CONSUMERS 1785 | 12 | 6 | | | | | | 01/25/65 | 1614 | 104 | 89 | 2706 | 380 | 8 | 4901 | 8.0 | 1.0060 | 1.2200 |
| **** COUNTY RUSSELL** | | | | | | | | | | | | | | | | | | |
| *** TOWNSHIP CUMBERLAND** | | | | | | | | | | | | | | | | | | |
| CONSUMERS 5174 | 0 | | | | | 255.7 | DISPLACD WATER | 06/08/66 | 1183 | 169 | 94 | 686 | 330 | 1700 | 4162 | 7.5 | 1.0040 | 1.7000 |
| CONSUMERS 1773 | 19 | 11 | | | | | | 01/25/65 | 78772 | 1574 | 1256 | 174 | 49 | 127800 | 209625 | 6.3 | 1.1380 | 0.0560 |
| CONSUMERS 1772 | 25 | 9 | | | | 152.4 | | 02/16/65 | 19342 | 9706 | 2994 | 55700 | 37 | 23 | 87802 | 5.8 | 1.0611 | 0.1010 |
| **** COUNTY SIMCOE** | | | | | | | | | | | | | | | | | | |
| *** TOWNSHIP TINY** | | | | | | | | | | | | | | | | | | |
| SYLVESTER WELL | 19 | XIV | 490.1N | 377.9W | CAMBRIAN | 117.0 | WELL HEAD | 04/22/67 | 0 | 0 | 0 | 16 | 0 | 0 | 16 | 8.4 | | |
| **** COUNTY WELLAND** | | | | | | | | | | | | | | | | | | |
| *** TOWNSHIP BERTIE** | | | | | | | | | | | | | | | | | | |
| | 32 | BF | | | DRIFT | | WATER WELL | 09/01/67 | 0 | 0 | 0 | 69 | 0 | 0 | 69 | 7.7 | | |
| CONSUMERS 478 | 31 | BF | 396.2S | 243.8E | | | BAILER | 07/31/63 | 58612 | 27795 | 3589 | 149800 | 0 | 37 | 239833 | 4.5 | 1.1640 | 0.0590 |
| *** TOWNSHIP WAINFLEET** | | | | | | | | | | | | | | | | | | |
| CONSUMERS 32270 | 3 | IV | 2050N | 190E | GUELPH | 137.2 | BAILER | 04/17/74 | 2647 | 448 | 126 | 3360 | 107 | 2460 | 9148 | 7.2 | | |
| CONSUMERS 32270 | 3 | IV | 624.8N | 57.9E | GUELPH | 137.2 | BAILER | 04/17/74 | 24495 | 2320 | 1798 | 45800 | 171 | 1850 | 76434 | 7.1 | | |
| **** COUNTY WELLINGTON** | | | | | | | | | | | | | | | | | | |
| *** TOWNSHIP ARTHUR** | | | | | | | | | | | | | | | | | | |
| BUXTON BOZLAN ARTHUR 1 | 25 | V | 193.5N | 167.6E | DRIFT | 57.9 | WELL HEAD | | 0 | 0 | 0 | 15 | 0 | 178 | 193 | 7.9 | | |
| **** COUNTY WENTWORTH** | | | | | | | | | | | | | | | | | | |
| *** TOWNSHIP BEVERLY** | | | | | | | | | | | | | | | | | | |
| CANADIAN ESSEX 4 | | | | | | | | | | | | | | | | | | |
| ASPINALL 1 | 32 | VI | 152.4N | 152.4E | CAMBRIAN | 730.6 | | 12/15/62 | 32030 | 50392 | 6768 | 165749 | 70 | 273 | 255282 | 6.3 | 1.1883 | 0.0460 |
| CAN. ESSEX OIL 2 | 34 | V | 442.0S | 100.6W | CAMBRIAN | 786.4 | BAILER | 01/19/62 | 40802 | 64400 | 7533 | 198800 | 49 | 0 | 311584 | 6.8 | 1.2268 | 0.0520 |
| *** TOWNSHIP W. FLAMBOROUGH** | | | | | | | | | | | | | | | | | | |
| IMP. 834 | 1 | III | 150.2S | 99.1W | CAMBRIAN | 2375.0 | | 01/24/63 | 38893 | 66000 | 7046 | 197193 | 63 | 68 | 309263 | 6.1 | 1.2265 | 0.0430 |